digital.

RH11-Ø

Engineering Drawings
Digital Equipment Corporation

The material herein is for information purposes only and is subject to change without notice. Digital Equipment Corporation assumes no responsibility for any errors which may appear herein.

These drawings and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

Copyright © 1975, Digital Equipment Corporation

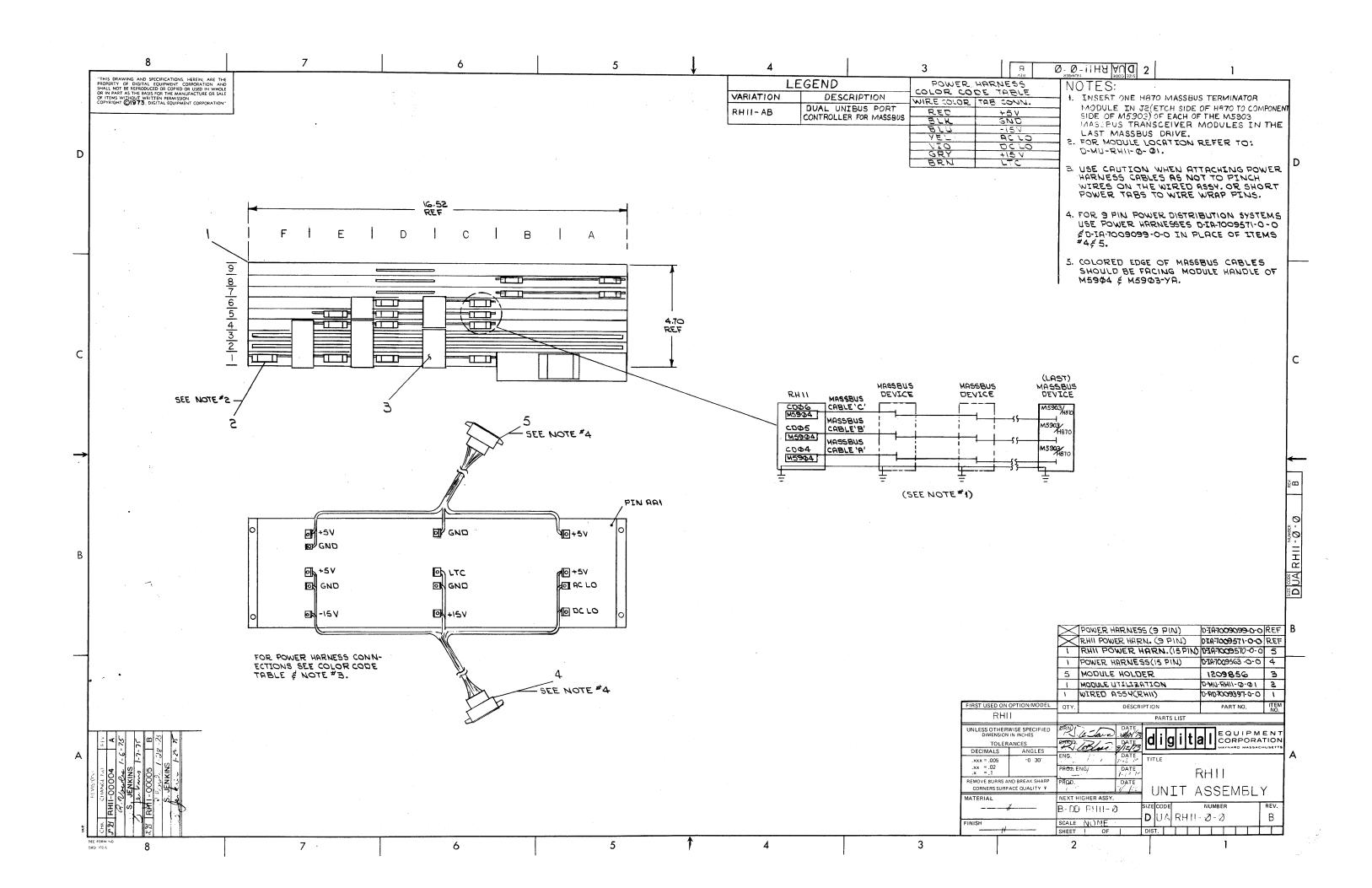
	ī		:	•		ī	EQUIPMENT CORPORATION
u	Ľ	9	ŀ	-	d	1	CORPORATION

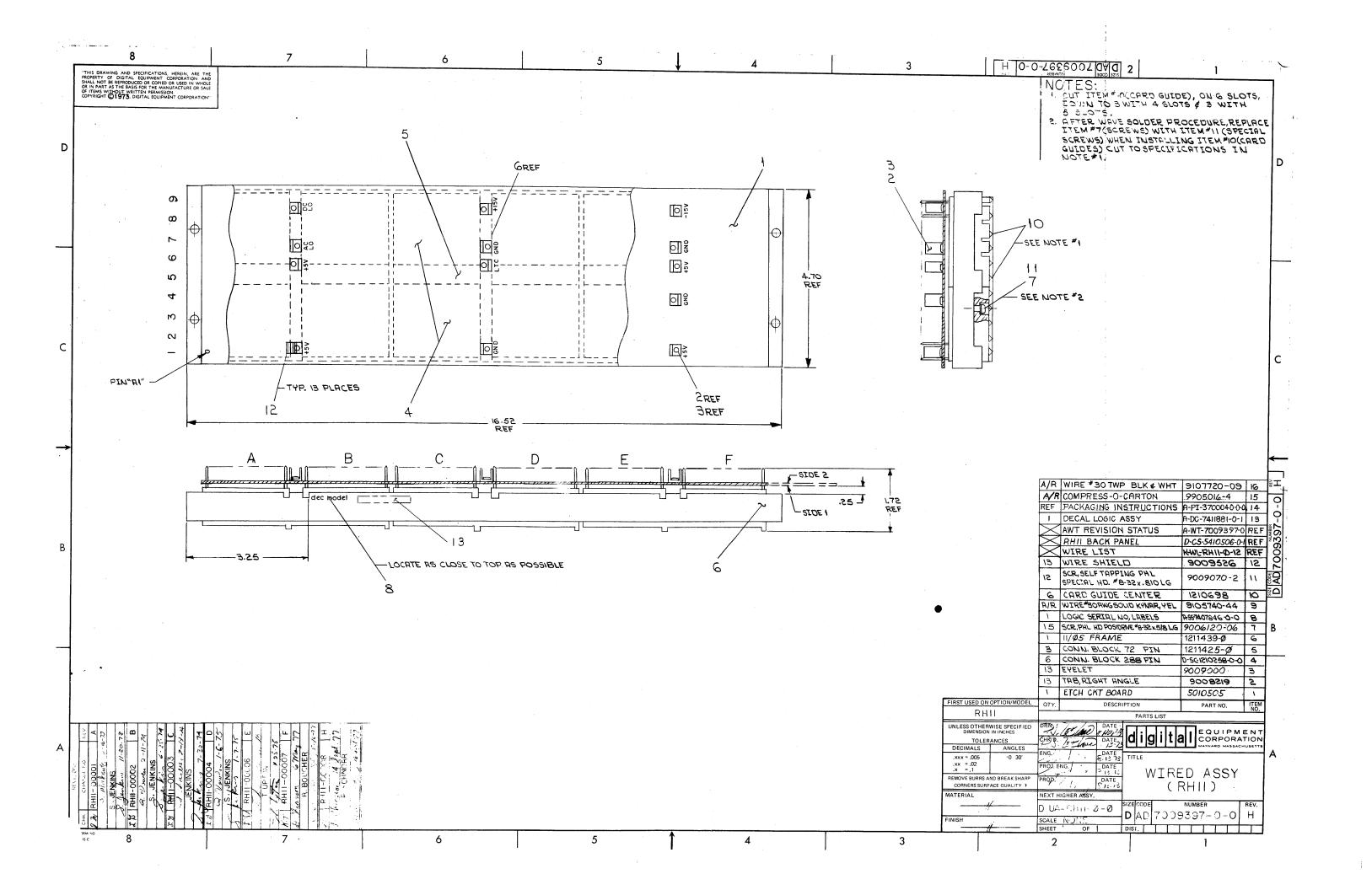
DRAWING DIRECTORY

"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1973, DIGITAL EQUIPMENT CORPORATION"

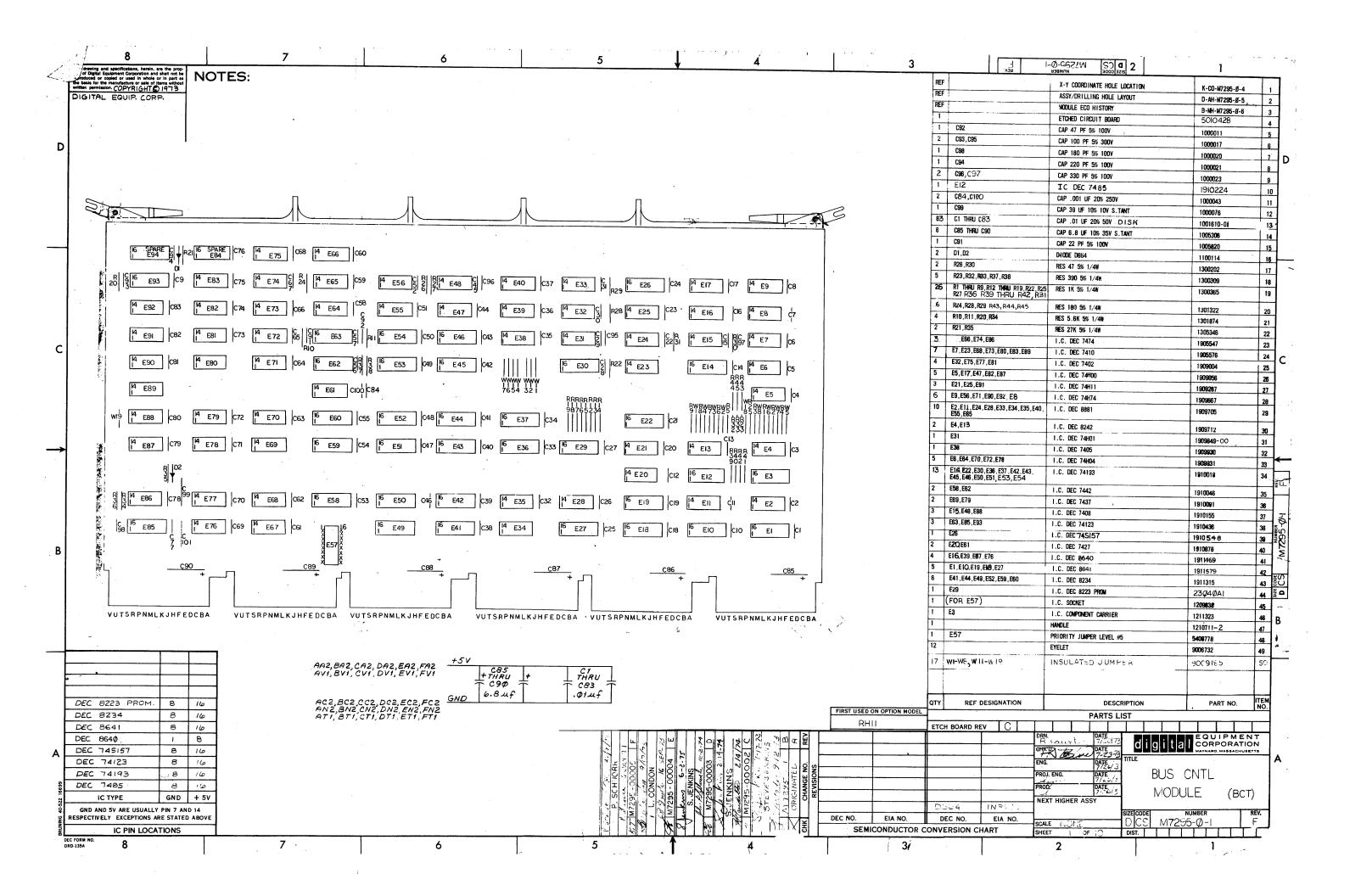
	SEQUENCE	CUSTOMER		ET INDEX	SEQUENCE _					THIS IS	PRINT	SET		J
DRAWING DIRECTORY RH11 RH11 UNIT ASSEMBLY WIRED ASSEMBLY (RH11)	• •	B-DD-RH11-Ø D-UA-RH11-Ø-Ø D-AD-7009397-0-0	7 (זר	٦	ι	JNIT	VARIAT	IONS		PRINT	SET
MODULE UTILIZATION	•	D-MU-RH11-Ø-Ø1						VAR		TITI			RHIFØ	
BUS CONTROL		D-CS-M7295-Ø-1								TITL			품	
CONTROL & STATUS REG DATA BUFFER & CONTROL		D-CS-M7296-Ø-1 D-CS-M7294-Ø-1						RHII-AB	DUAL U	NI PORT MASS	BUS CONT	ROL	×	\Box
PARITY CONTROL		D-CS-M7297-Ø-1											+	++
MASSBUS TRANSCEIVER		D-BS-RH11-Ø-Ø2												Ħ.
UNIBUS A CABLE DIAGRAM		D-IC-RH11-Ø-Ø3												世
UNIBUS B CABLE DIAGRAM		D-IC-RH11-Ø-Ø4												44
WRITE UNIBUS TIMING DIAGE READ + WRITE CHECK UNIBUS		D=TD-RH11-Ø-Ø5												Ш
(TIMING DIAGRAM)		D-TD-RH11-Ø-Ø6							<u> </u>		· · · · · · · · · · · · · · · · · · ·			
WRITE MASSBUS TIMING DIAG READ + WRITE CHECK MASSBU		D-TD-RH11-Ø-Ø7							<u> </u>				+	++1
(TIMING DIAGRAM)		D-TD-RH11-Ø-Ø8											\Box	\Box
WRITE COMMAND FLOW DIAGRA		D-FD-RH11-Ø-Ø9												++
READ COMMAND FLOW DIAGRAM WRITE CHECK COMMAND FLOW		D-FD-RH11-Ø-1Ø D-FD-RH11-Ø+11												ш
									<u> </u>				++	
UNIBUS TERMINATOR (BUS B) CONTROLLER TRANSCEIVER)	D-CS-M9300-0-1 D-CS-M5904-0-1											+	+11
GRANT CONTINUITY	* :	B-CS-G727-Ø-1												山
MASSBUS TERMINATOR UNIBUS CONNECTOR		D-CS-H87Ø-Ø-1 C-CS-M92Ø-Ø-1												441
POWER FAIL DRIVER		D-CS-M688-Ø-1							ļ				++	+HI
CIRCUIT SCHEMATIC WIRE LIST		D-CS-5410506-0-1 K-WL-RH11-Ø-12												$\dagger \dagger \parallel$
AWT REVISION STATUS		A-WT-7009397-0											44	\Box
RE11 POWER HARNESS (15 PI POWER HARNESS (15 PIN)	N)	D-IA-7009570-0-0 D-IA-7009563-0-0								****			++	+-
, , ,														\Box
														ДΙ
•													++	+
														山
<u> </u>						·								
						USED ON OPTI	ON/MODEL	DRN. Et Au	9/1/23	TITLE MAS		ONTROLLE	R	
								CHKP.	DATE	* (⁽	RHI-p)			Ì
CHG. NO. CHG. NO. CHG. NO. CHII - 2 CHII - 2 CHII - 3 CHII - 4 CHII - 5 CHII - 6	$ \infty $							PROJ ENG.	DATE 9-12-73	4	7			İ
CHG. CHG. CHG. CHG. CHG. CHG. CHG. CHG.								\sim						
RHIII AHIII	世					 		PROD.	DATE	SIZE CODE	NUMB	ER	F	REV
THE TOTAL STATES								FIELD SERV.	DATE	B DD	RH11-Ø		<u> </u>	۷
18 PO DY PO DO -						SHEET 1	OF 2		19/17/2	DIST	1 1 1	1 1 1	- 1	1 1

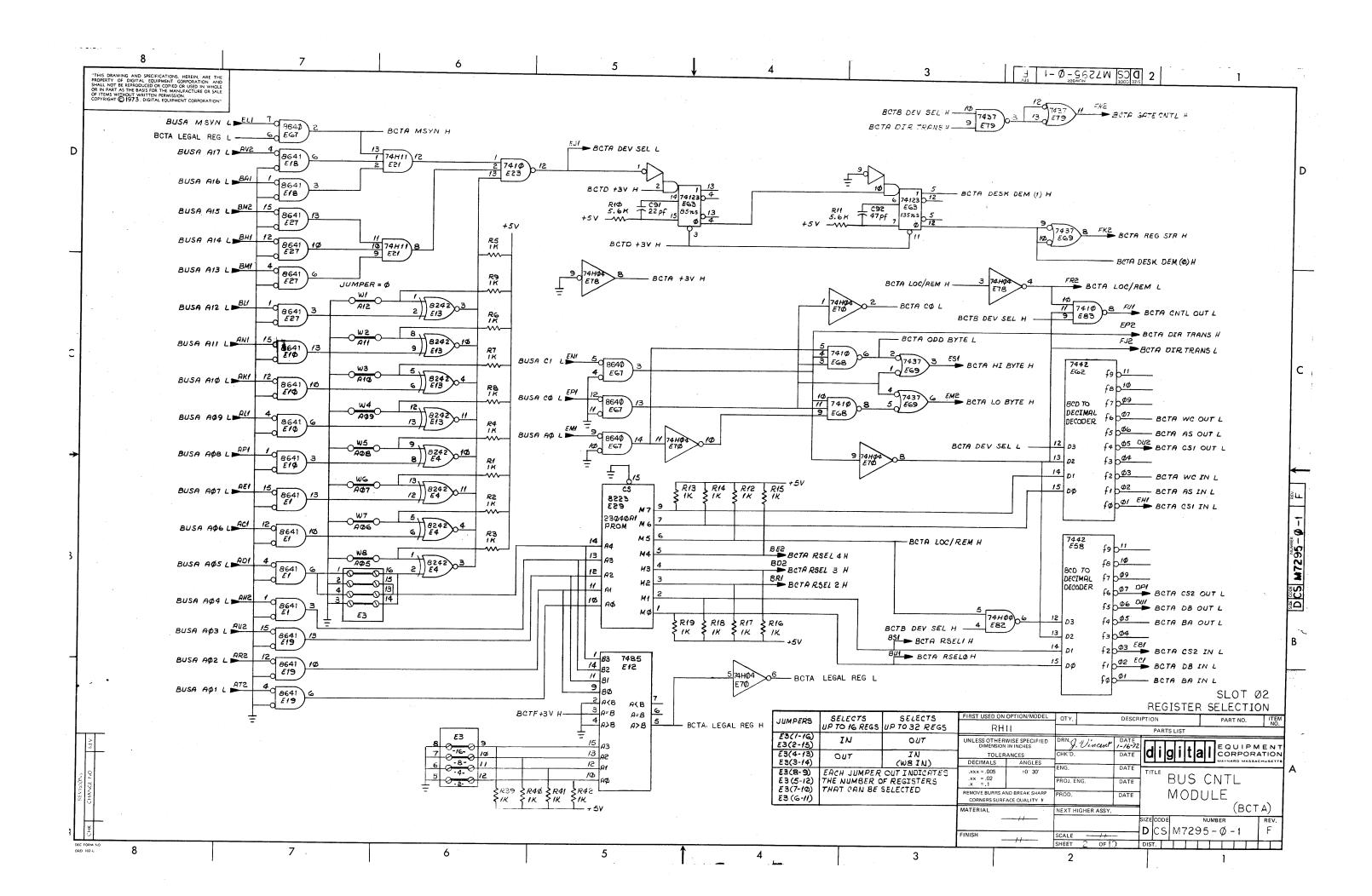
CUST	OME T SE	R		Е	LECTRI	CAL					CUST	OME	1		МЕ СН	ANI	CAI	Ĺ		
RH11-0		MFG. SET	ĮΣ	DRAWING NO.	RI		NO OF SHT	DESCRIPTION	OPTI NO./F DAT	ON .	RH11-0		Tig	FIND NO.	DRAWING NO.	R		NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
x	\vdash	+	1	D-UA-RH11-Ø-Ø		в	1	RH11 UNIT ASSEMBLY	_		X	++	┿		D-UA-RH11-Ø-Ø		A		RH11 UNIT ASSEMBLY	
X		1	1	D-MU-RH11-Ø-Ø1		В	1	MODULE UTILIZATION			x	1	†	 	D-IA-7009570-0-0		#		RH11 POWER HARNESS (15 PIN)	
X		T		D-BS-RH11-Ø-Ø2		3	3	MASSBUS TRANSCEIVER			X	t	T	†	D-IA-7009563- 0 -0		#		POWER HARNESS (15 PIN)	-
x		1		D-IC-RH11-Ø-Ø3		*	1	UNIBUS A CABLE DIAGRAM		_	_	 	†	t	A-PL-H85Ø-Ø-Ø	-+	"	1	HANDLE EXTENDER	
X		T		D-IC-RH11-Ø-Ø4		k :	1	UNABUS B CABLE DIAGRAM				† †	T	1-	D-IA-7009571-0-0		+	1		-
X				D-TD-RH11-Ø-Ø5		4	1	WRITE UNIBUS (TIMING DIAGRAM)	1				1	t	D-IA-7009099-0-0		\dashv	 	RH11 POWER HARNESS (9 PIN) POWER HARNESS (9 PIN)	
X				D-TD-RH11-Ø-Ø6	1	4	1	READ + WRITE CHECK UNIBUS						1	7009099-0-0	_	+		FOWER HARNESS (9 PIN)	-
								(TIMING DIAGRAM)				\vdash	1	†			+			
X				D-TD-RH11-Ø-Ø7	k	k	1	WRITE MASSBUS (TIMING DIAGRAM)					†	†		_	+			
X				D-TD-RH11-Ø-Ø8	k	k.	1	READ + WRITE CHECK MASSBUS					1	1			+			+
								(TIMING DIAGRAM)					1				╅			-
ĸ				D-FD-RH11-Ø-Ø9	A	4	1	WRITE COMMAND FLOW DIAGRAM					1			_	_			- I
X				D-FD-RH11-Ø-1Ø		4	1	READ COMMAND FLOW DIAGRAM								_	+			+
X				D-FD-RH11-Ø-11	1	A	1	WRITE CHECK COMMAND FLOW DIAGRAM		1			1	1		_	$\neg \uparrow$			-
X				D-CS-M7295-Ø-1	#	+	10	BUS CONTROL					1	1			+			
X				D-CS-M7296-Ø-1	+	‡	3	CONTROL & STATUS REG		1			†	†		+	+			+
X				D-CS-M7294-Ø-1	+	=	9	DATA BUFFER & CONTROL					1	1		+				
X				D-CS-M7297-Ø-1	#	#	2	PARITY CONTROL		1			1	1		_	+			+
X				D-CS-M93ØØ-Ø-1	‡		2	UNIBUS TERMINATOR (BUS B)	1	1			1	†		_	+			
X				D-CS-M59Ø4-Ø-1	4	#	2	CONTROLLER TRANSCEIVER					1	1		+	+			+
X				B-CS-G727-Ø-1	1	Ħ	1	GRANT CONTINUITY		1			†-			-	+			
X		T	T	D-CS-H87Ø-Ø-I		Ħ	2	MASSBUS TERMINATOR	1	-1			†	†		-	+-			
X		T		C-CS-M92Ø-Ø-1	=	#	1	UNIBUS CONNECTOR		-1	+		†	2	D-AD-7009397-0-0		= 🕇	1	LITDED ACCEPTED (DIVIN)	
X			T	D-CS-M688-Ø-1		#	2	POWER FAIL DRIVER		1			 	╁▔	D-SC-1210258-0-0	+:	+	1	WIRED ASSEMBLY (RH11) CONN. BLOCK 288 PIN	
		T	П					,	†	-	+		†	 	A/D-PS-1211425-Ø		+	3	CONN. BLOCK 72 PIN	
		T				Ť			1	1	\dashv		†	\dagger	E-PS-1211439-0	+	+	$\frac{3}{1}$	II/OS LOGIC FRAME	
		T							1	1	-+		╁┈	 	A-SS-7407846-0-0	-+-	+	1		-
						1			+	1	+ 1		╁┈	-	A-DC-7411881-0-1	+	+	- †	LOGIC SERIAL NO. LABELS DECAL, LOGIC ASSY	
									1				+	 	A-PI-3700040-0+0	+	+	_!_	PACKAGING INSTRUCTION	+
		T	Π							1	+++		†-	†	7,11 0,000 40 070	-	+		PACKAGING INSTRUCTION	
7			2	D-AD-7009397-0-0	ŀ	1	1	WIRED ASSEMBLY (RH11)	- 	1			t	3	D-CS-5410506-0-1	+-	‡	7	OT DOUTE OF CONTRACT OF CONTRA	-
		T		K-WL-RH11-Ø-12			1	WIRE LIST		1	++		+	ļ	K-CO-5410506-0-4		-	1	CIRCUIT SCHEMATIC	
\sim		T		A-WT-7009397-Ø	E		1	AWT REVISION STATUS		-1	+ +		1	1-	D-AH-5410506-0-5		+	1	X-Y COORDINATE HOLE LOCATION ASSY DRILLING HOLE LAYOUT	
										1	+ +		†		B-MH-5410506-0-6		+	-	MODULE ECO HISTORY	
								_		1			†		5010505		_	1		
ζ	$oldsymbol{\mathbb{I}}$	Γ	3	D-CS-5410506-0-1	#	+	1	CIRCUIT SCHEMATIC	+	1	-+		†			+-	+		ETCHED CIRCUIT BOARD	-
										1			†							
	\Box								1	1	+		t			+	+			┼──┤
					,			/	1	-	+		T^-			+	+			+
										_	11					+	+			+
									1	1	++		T		11.4	+	+			+
							•		1 .		++	- -	T^-				+			+
									+	-	-+	$\vdash \vdash$	1			+	+		·	+
									1		1		T			+	+-			
PRIN	TOME		C :	PRINT OF DOCUMENT INCINCLUDES ALL PRINTS IN	DICATED	ON	DOCL	MENT			TITL				DIRECTORY	İ			SIZE CODE NUMBER	REV
-	DES B 1	أبيب	S	CONFIDENTIAL AUTHORIZ	ED SIGNA	TUR	E RE	QUIRED			****		. ((RH1	1)	SH	EET	r 2	OF 2 B DD RH11-Ø	

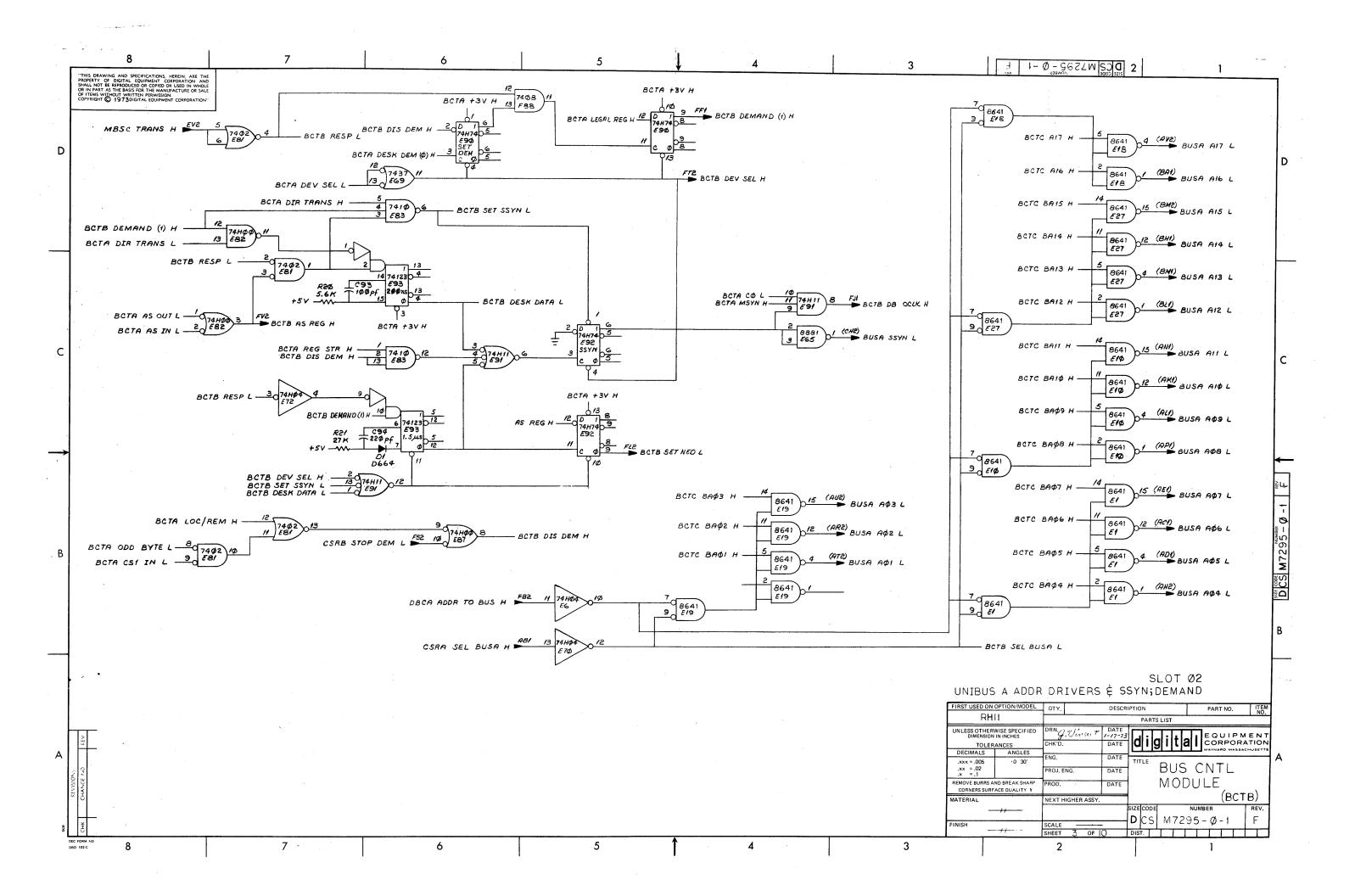


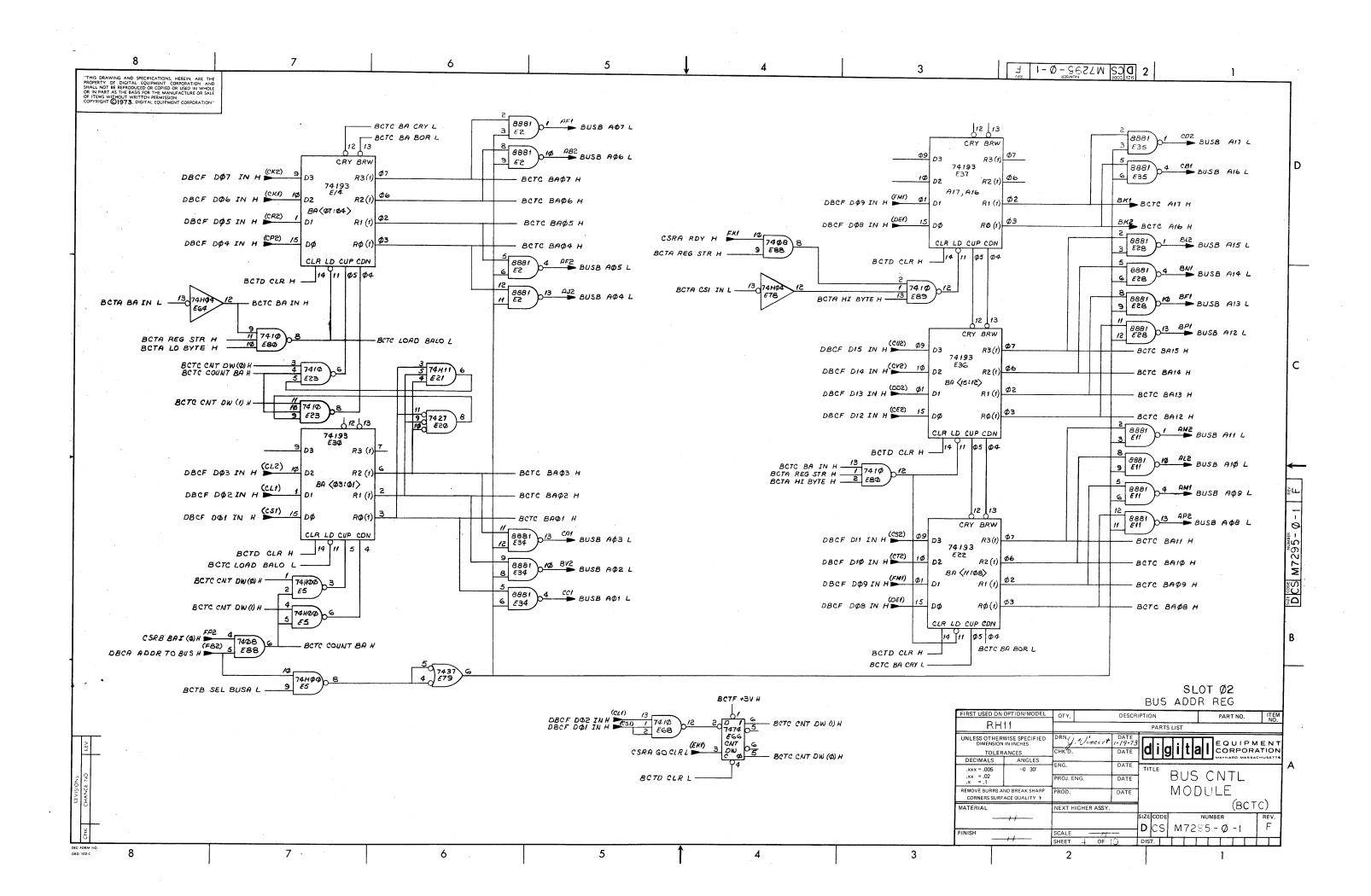


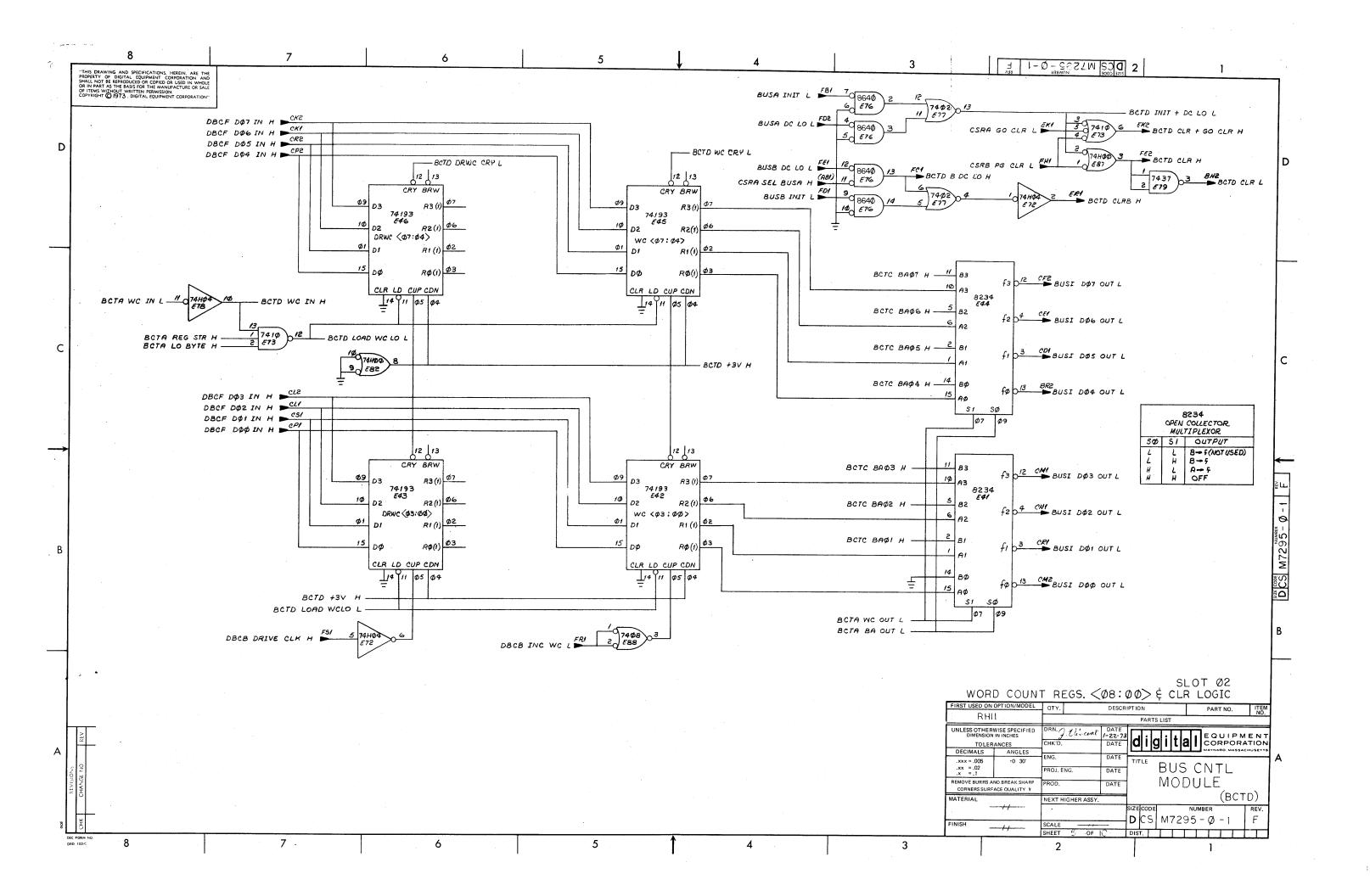
7 5 3 Я 2 DMURHII-0-01 "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION COPYRIGHT © 1973, DIGITAL EQUIPMENT CORPORATION" NOTES: 1. VIEW OF LOGIC PANEL IS FROM WIRING SIDE. 2. THE SMALL PERIPHERAL CONTROLLER SLOTS MAY CONTAIN A VARIETY OF PDP 11 OPTIONS. THE OPTION MAY CONSIST OF A SINGLE QUAD MODULE BOARD (SLOTS C,D,E, & F) OR A DOUBLE HEIGHT CONTROLLER BOARD (SLOTS C & D) WITH AN M185 ADDRESS SELECTOR MODULE (SLOT E) AND AN M7821 INTERRUPT CONTROL MODULE (SLOT F). 3. IF NO OPTION IS PRESENT IN THE SMALL PERIPHERAL CONTROLLER SLOTS, G727 GRANT CONTINUITY MODULE(S) MUST BE INSERTED 4, MAY BE EITHER M920 (CONNECTION FROM ADJACENT DEVICE) OR BC11A CABLE (CONNECTION FROM ANOTHER BOX OR NON-ADJACENT DEVICE). MAY BE M928 (CONNECTION TO ADJACENT DEVICE), M938 (TERMINATION AT END OF UNIBUS A), OR BC11A CABLE (CONNECTION TO NEXT BOX OR NON-ADJACENT DEVICE). 6. MAY BE M9300 (TERMINATION AT BEGINNING OR END OF UNIBUS B) OR BC11A CABLE (CONNECTION TO OTHER BUS B DEVICES). UNIBUS A OUT (BUSA) 7. FOR DIAGNOSTIC CHECKOUT AN M9288 CONNECTOR MODULE MAY BE PLACED IN SLOTS A, B, BB & B9, AN M938 OR BC11A CABLE IS THEN USED IN SLOT A, B, B7. SEE 8. ONE H870 MODULE WILL BE INSERTED IN J2 OF EACH OF THE M5903 MODULES IN THE LAST DRIVE UNIT ATTACHED TO THE MASSBUS CARLES ORIGINATING FROM THE M5904(S) (6727) ∞ 밿 IN THE RHII CONTROLLER BACKPLANE, WHEN BUILDING A MASSBUS SYSTEM.
9. IF NO UNIBUS B CABLE IS CONNECTED TO THE RHII ONLY ONE M9300 MODULE SHOULD BE USED IN SLOT ABOS. 10. IF ANOTHER DEVICE ATTACHED TO THE SAME POWER SUPPLY AS THE RHII HAS UNIBUS POWER FAIL SIGNALS WIRED TO THE UNIBUS REMOVE THE MESS MODULE FOR THAT BUS, II. SMALL PER CONTROL SLOTS FOR MANUFACTURING USE ONLY 9 12. ONE H870 MODULE WILL BE INSERTED IN JI (COMPONENT SIDE OUT) OF EACH OF THE 3 M5904 MODULES FOR SHIPMENT ONLY S UNIBUS POWER FAIL DRIVER (BUSA) SEE NOTE 10 2 WIRING 4 POWER FAIL DRIVER (BUSB) FROM 3 DATA BUFFER & CNTL (DBC) VIEW $^{\circ}$ 1 BUS CNTL D-CS-M7295-Ø-1 PARI: CNTL FATUS REGS (CSR) 3 GRANT CONTINUITY B-CS-G727-Ø-1 2 MASS BUS TERMINATOR D-CS-H87Ø-Ø-1 3 USAGE D SZE PARITY CNTL D-CS-M7297-Ø-1 \triangleleft \circ $\mathbf{\omega}$ Ш ш CNTL & STATUS REG D-CS-M7296-Ø-1 DATA BUFFER & CONTROL D-CS-M7294-0-4 3 CONTROLLER TRANSCEIVER D-CS-M5904-0-1 2 UNIBUS TERMINATOR (BUS 8) D-CS-M93ØØ-Ø-1 8 UNIBUS CONNECTOR C-CS-M92Ø-Ø-1 POWER FAIL DRIVER D-CS-M688-Ø-1 10 HANDLE EXTENDER A-PL-H85Ø-Ø-Ø 11 FIRST USED ON OPTION/MODEL RHII PARTS LIST HELD GENERAL DATE DATE OF THE CORPORATION CHRID. (= Black DATE UNLESS OTHERWISE SPECIFIED TOLERANCES DECIMALS ANGLES .xxx = .005 DĄTE MODULE REMOVE BURRS AND BREAK SHARE UTILIZATION CORNERS SURFACE QUALITY Y MATERIAL NEXT HIGHER ASSY. B-DD -RHII- Ø В D MU RHII- 0-01 SCALE NONE FINISH DIST. SHEET 5 6 4 2

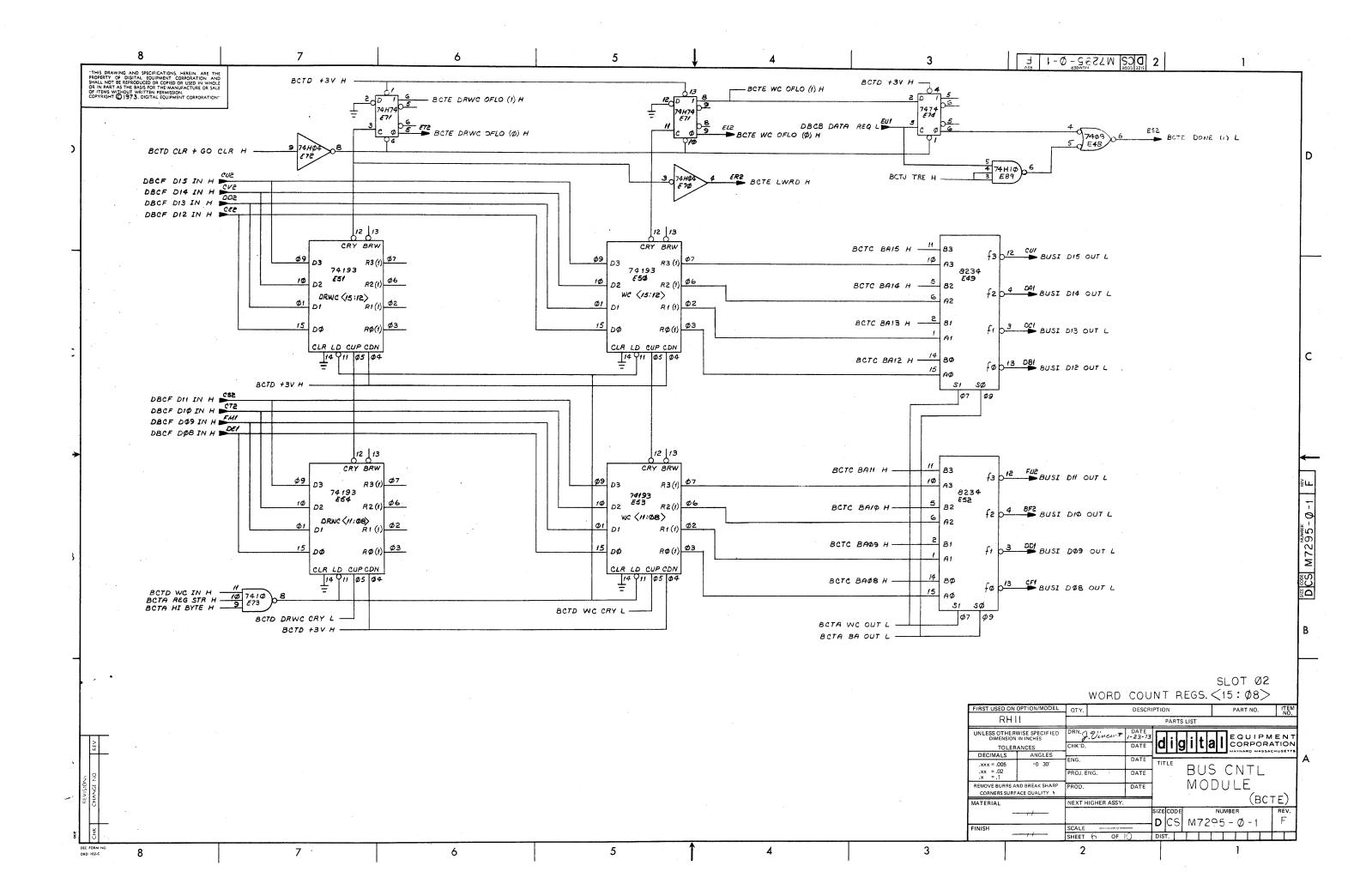


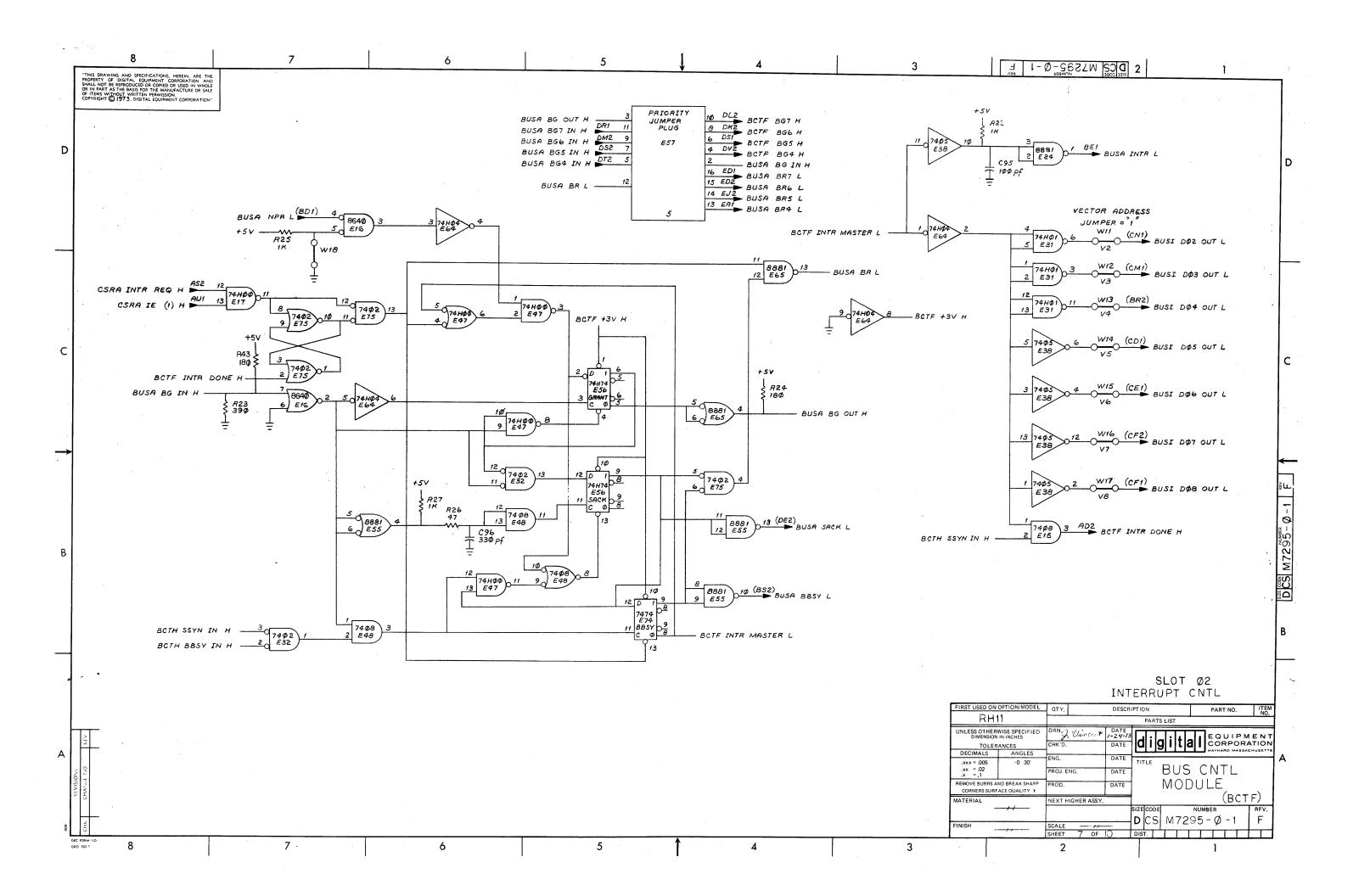


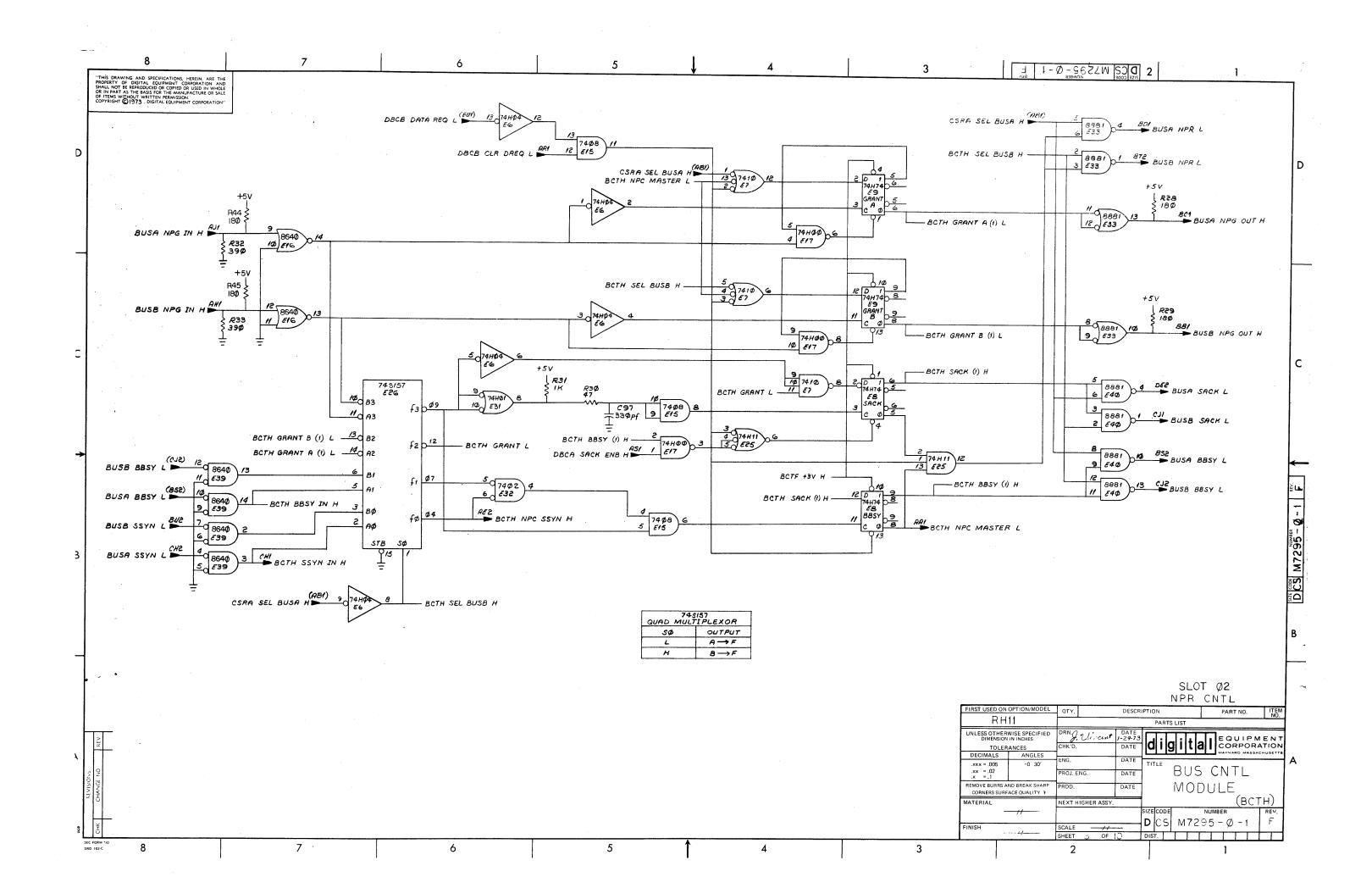


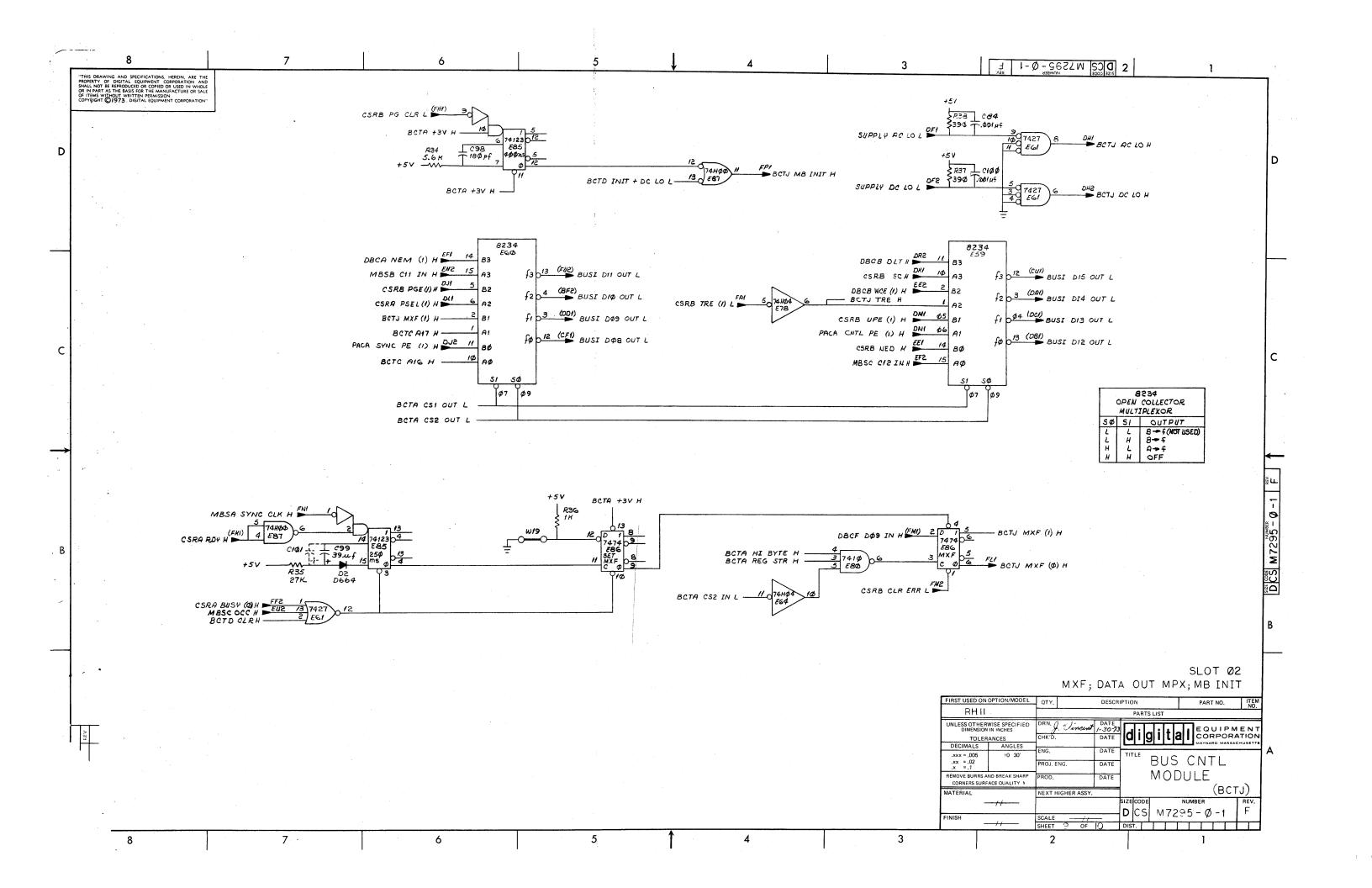


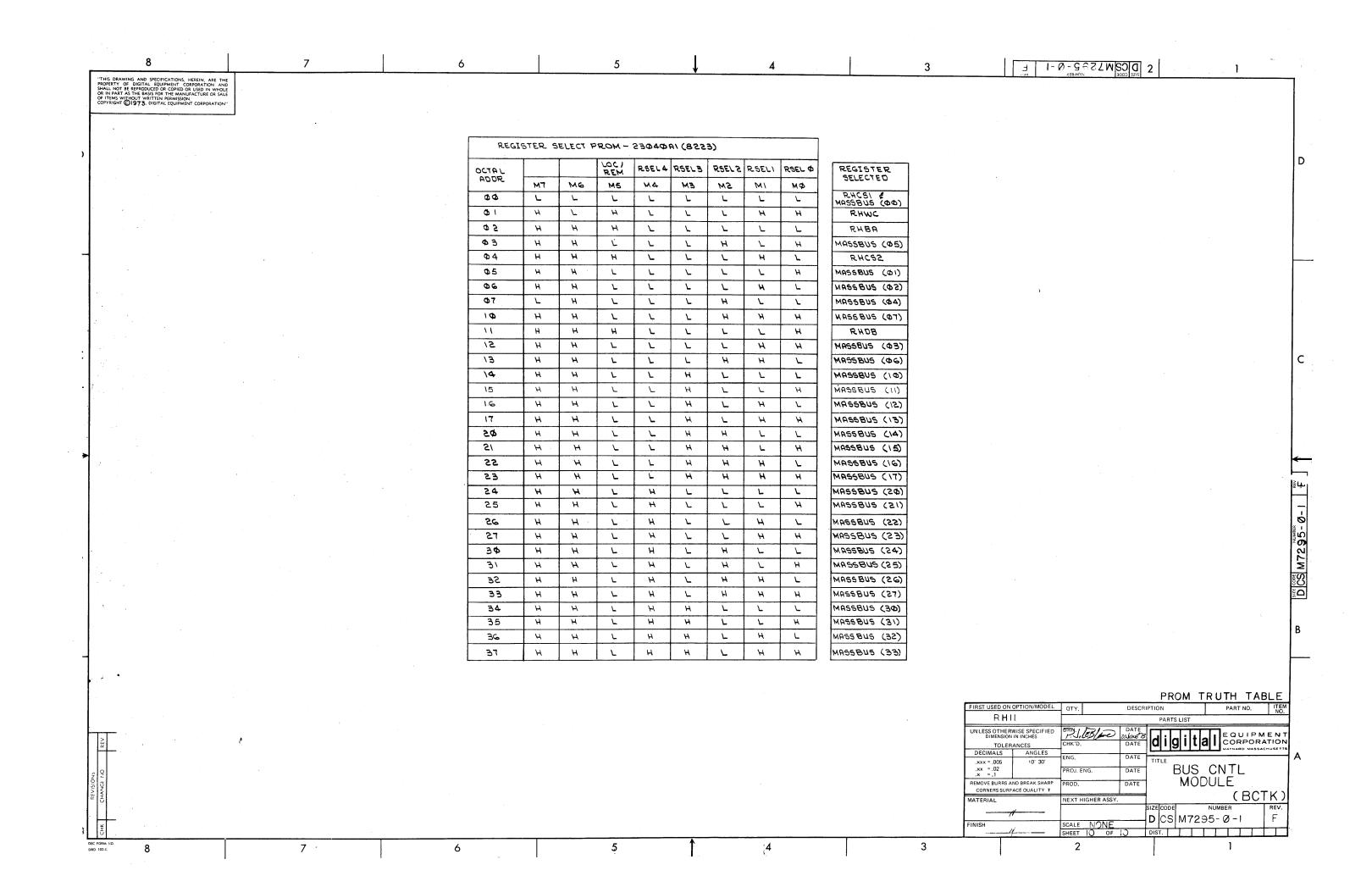


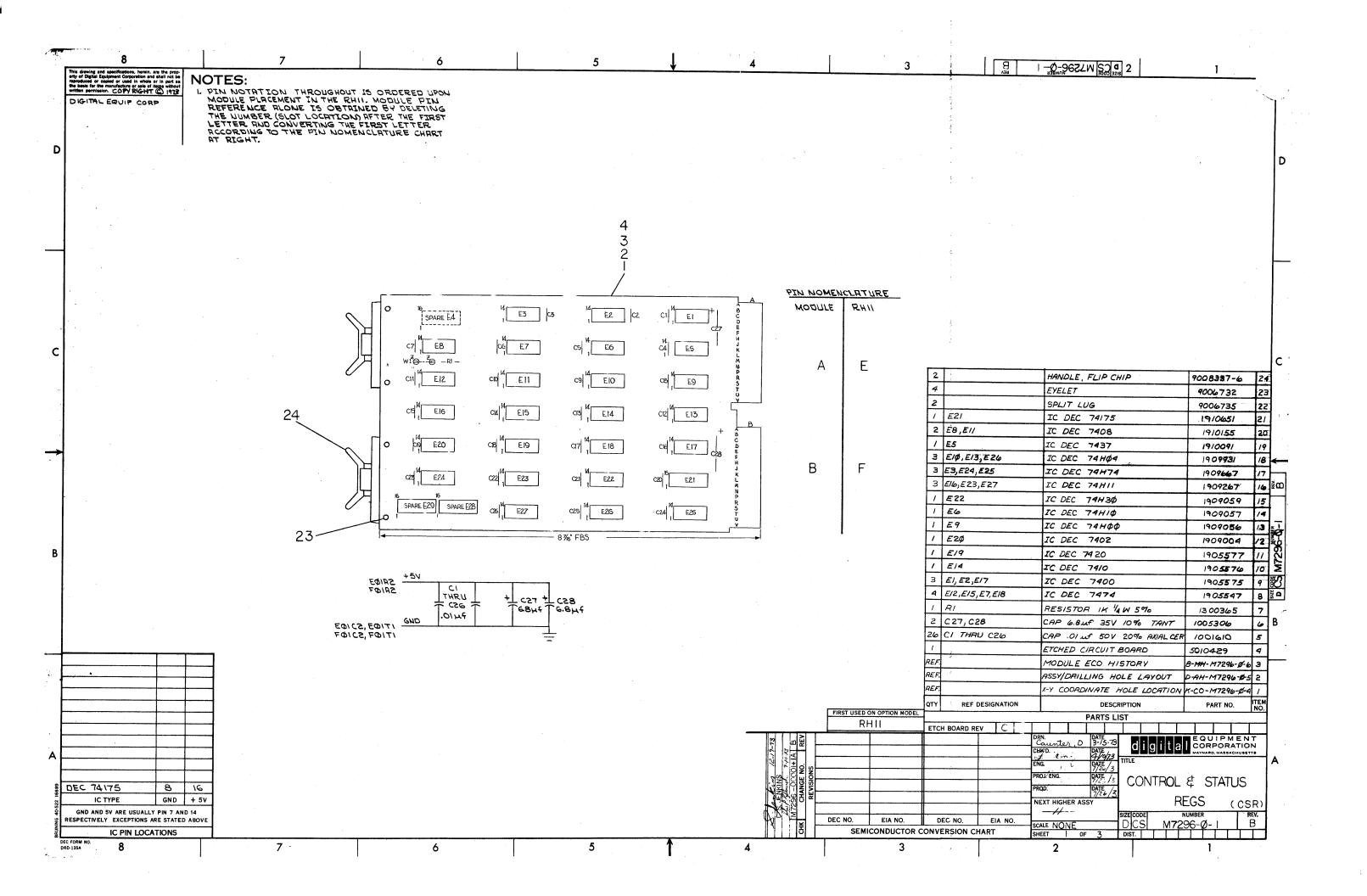


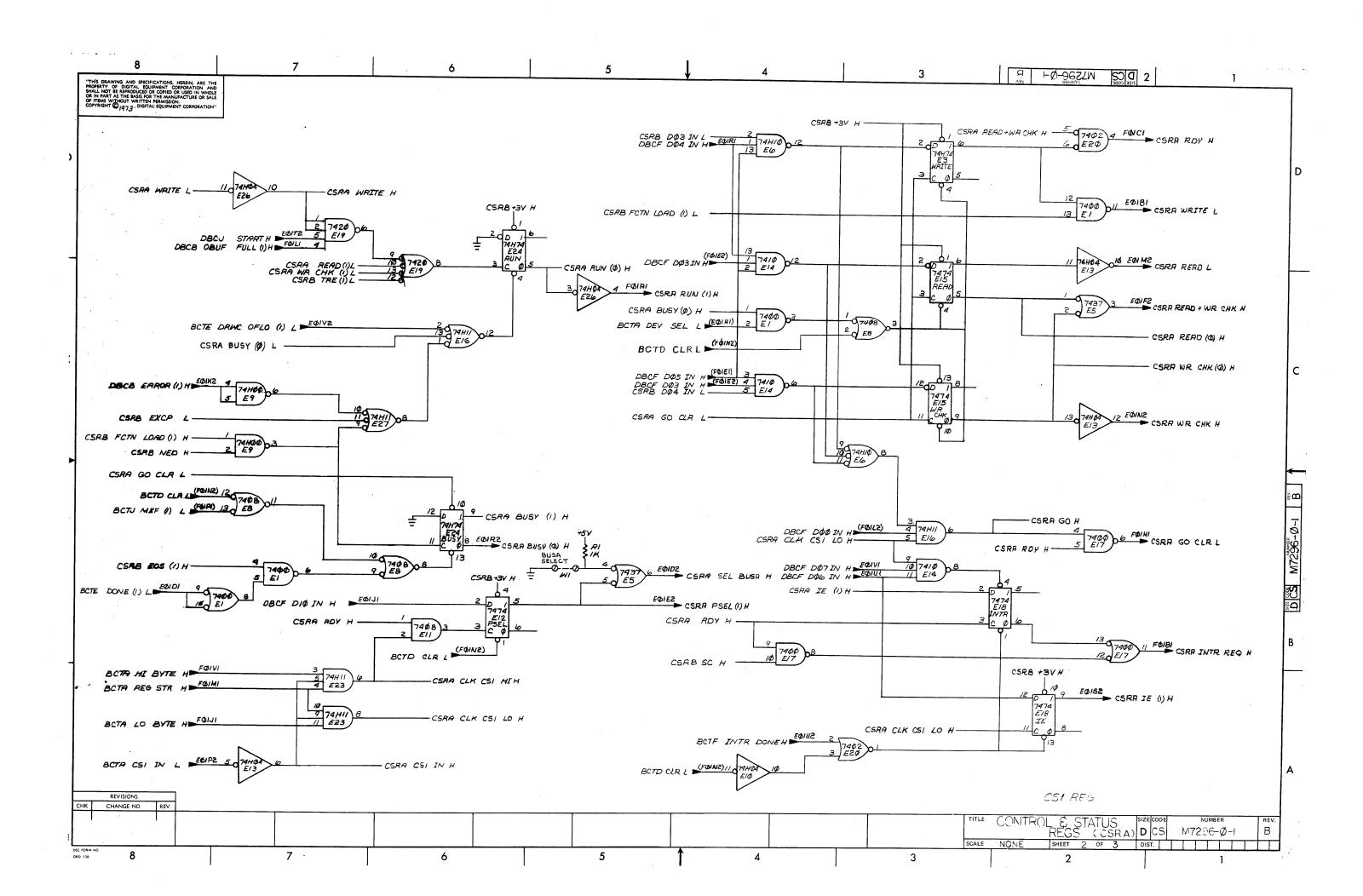


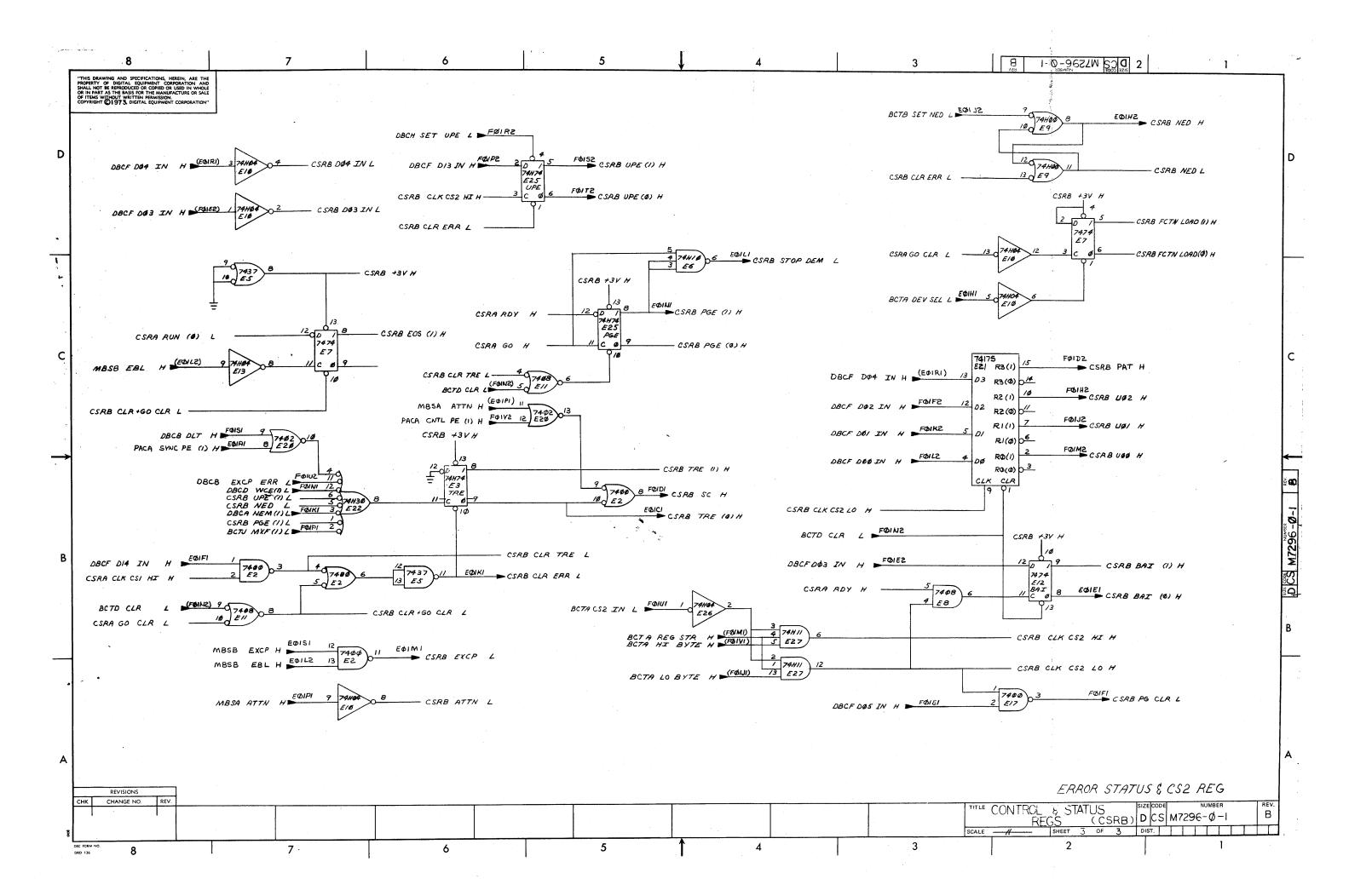


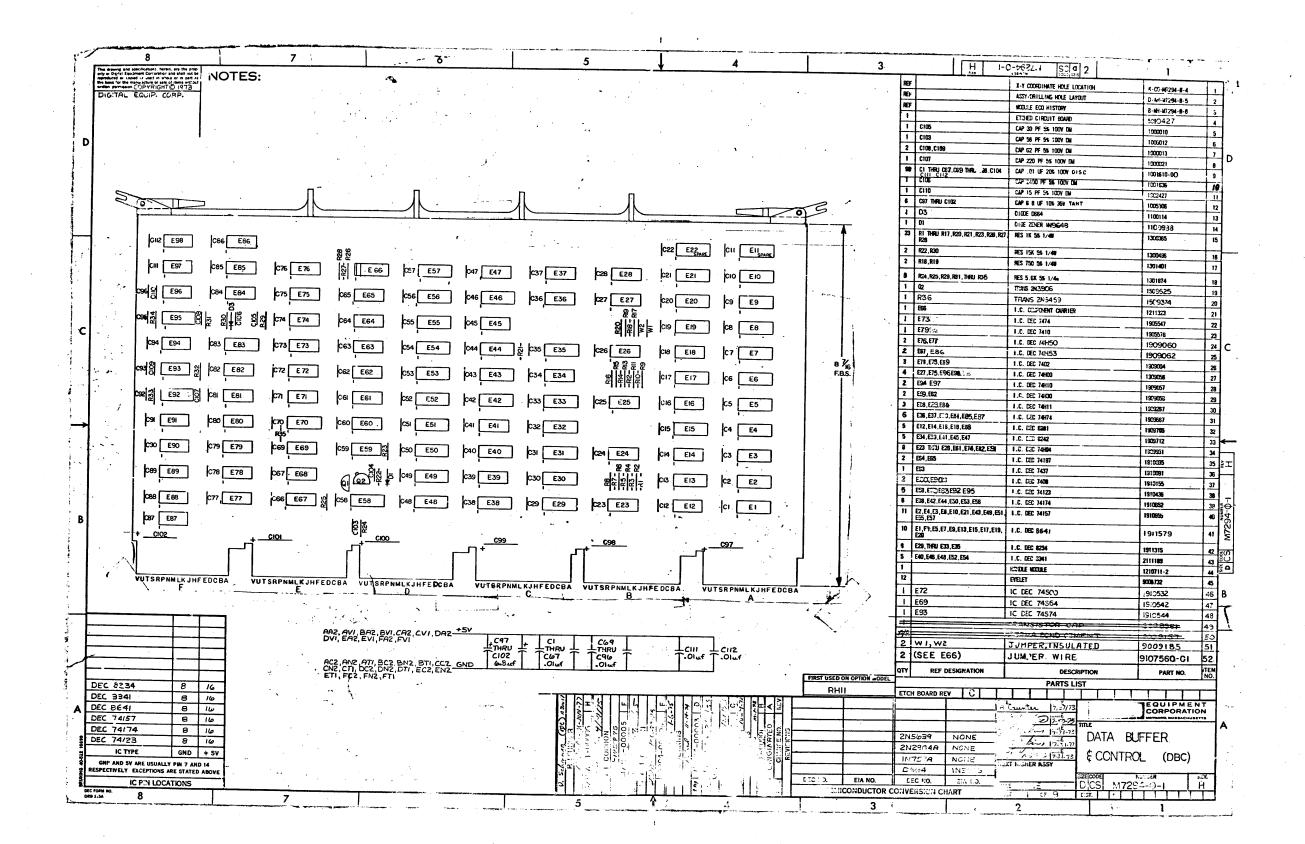


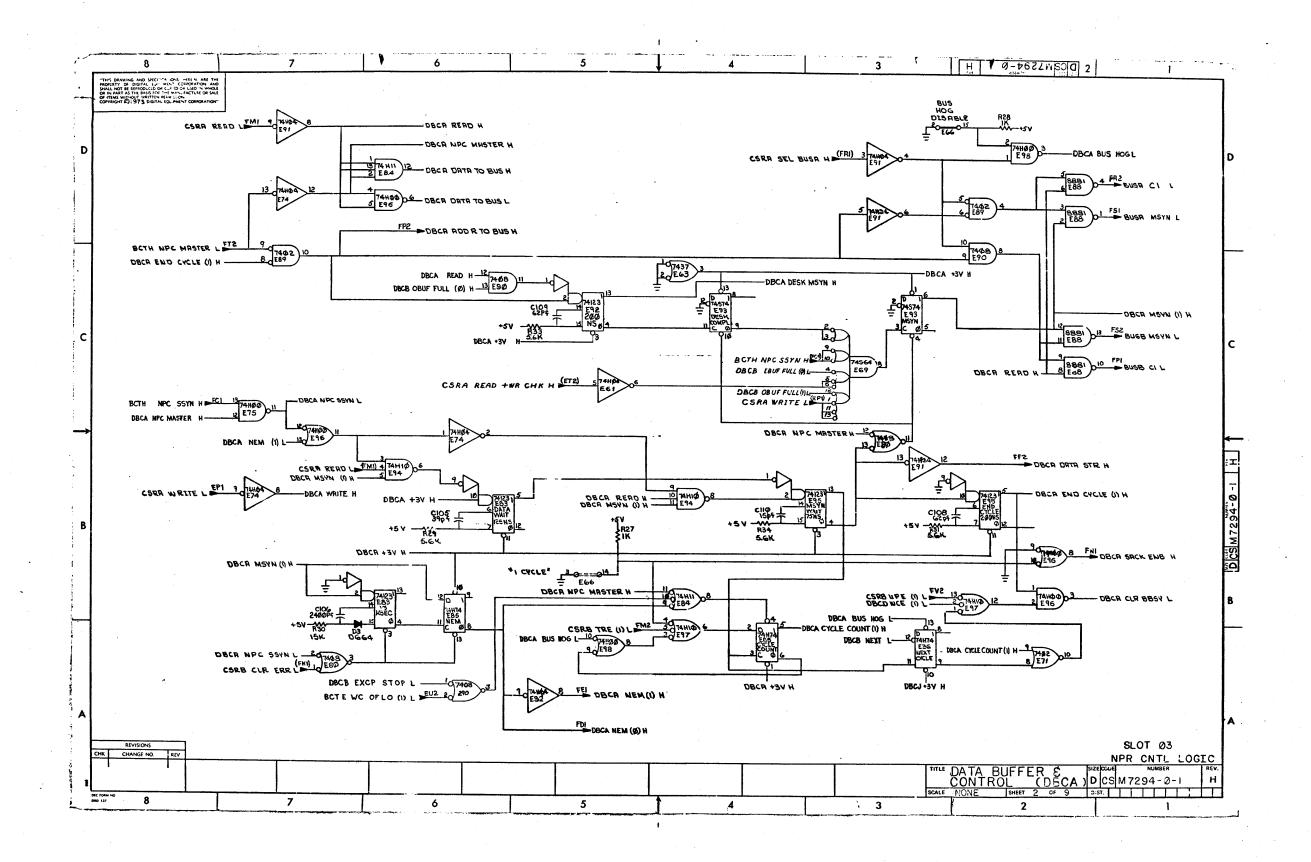


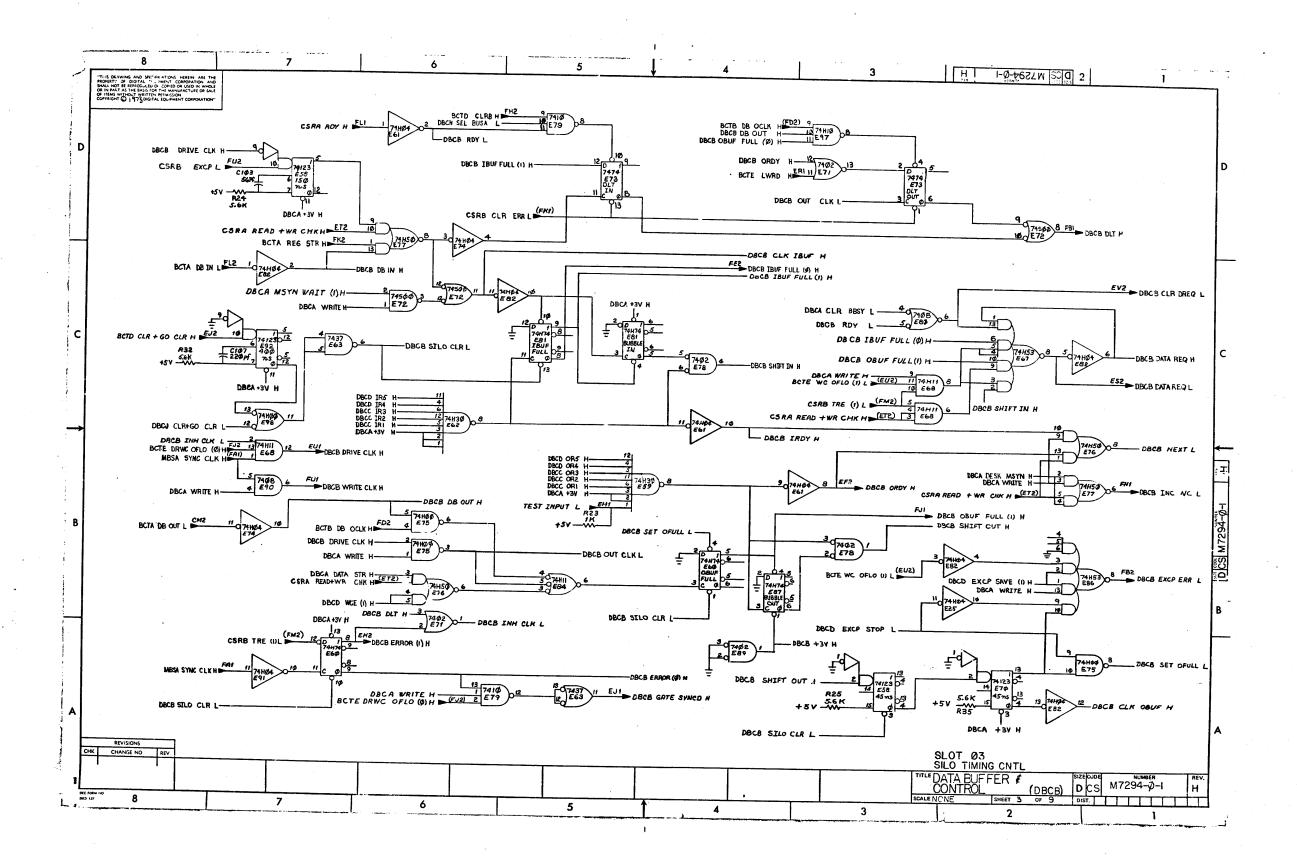


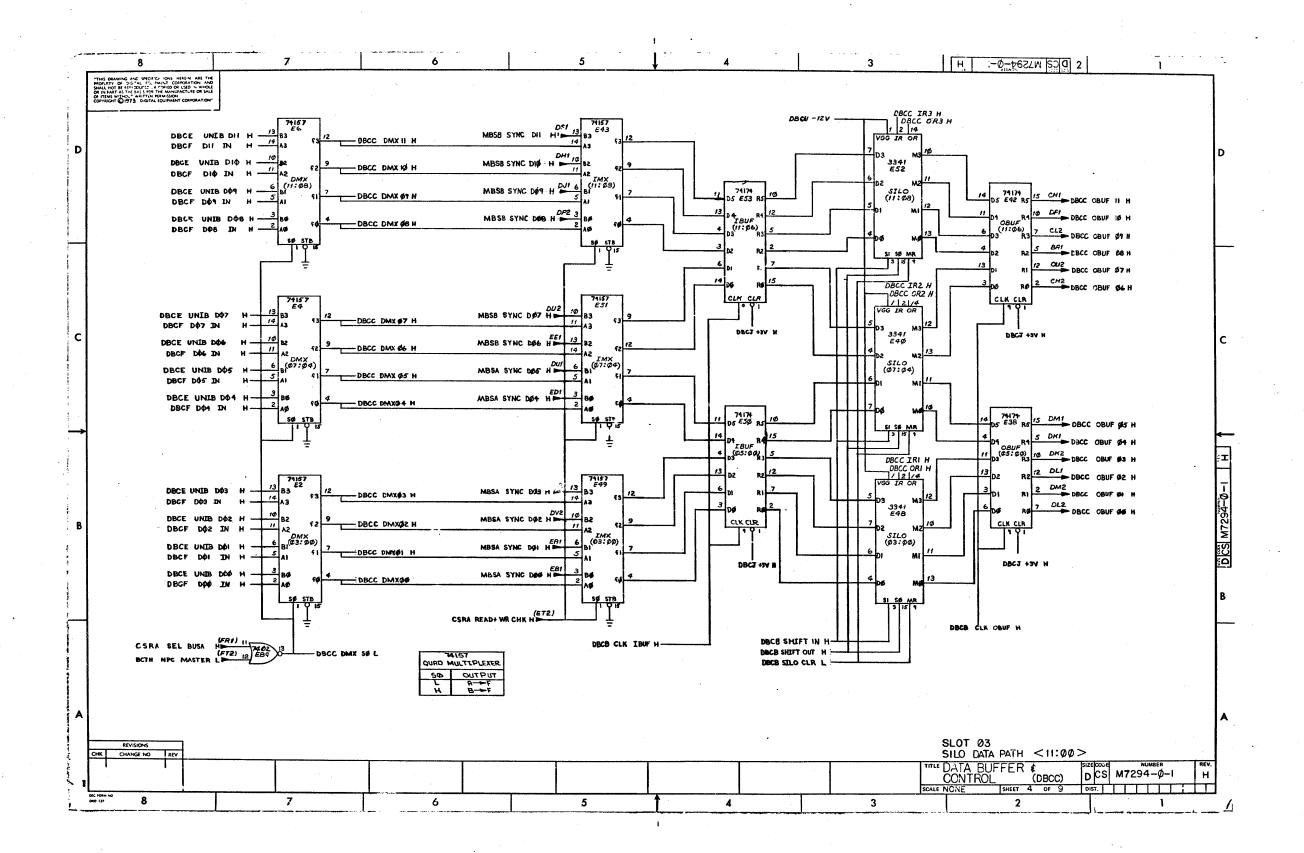


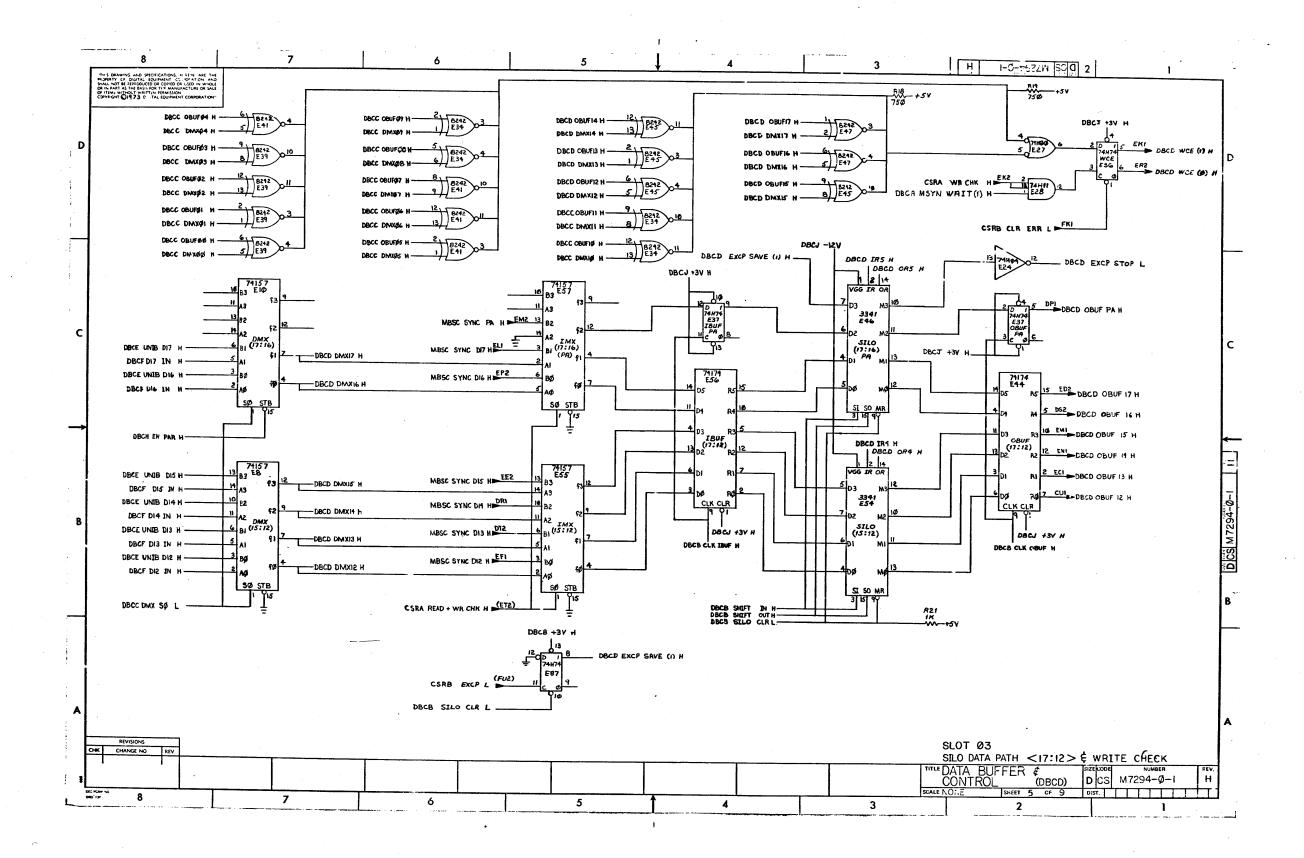


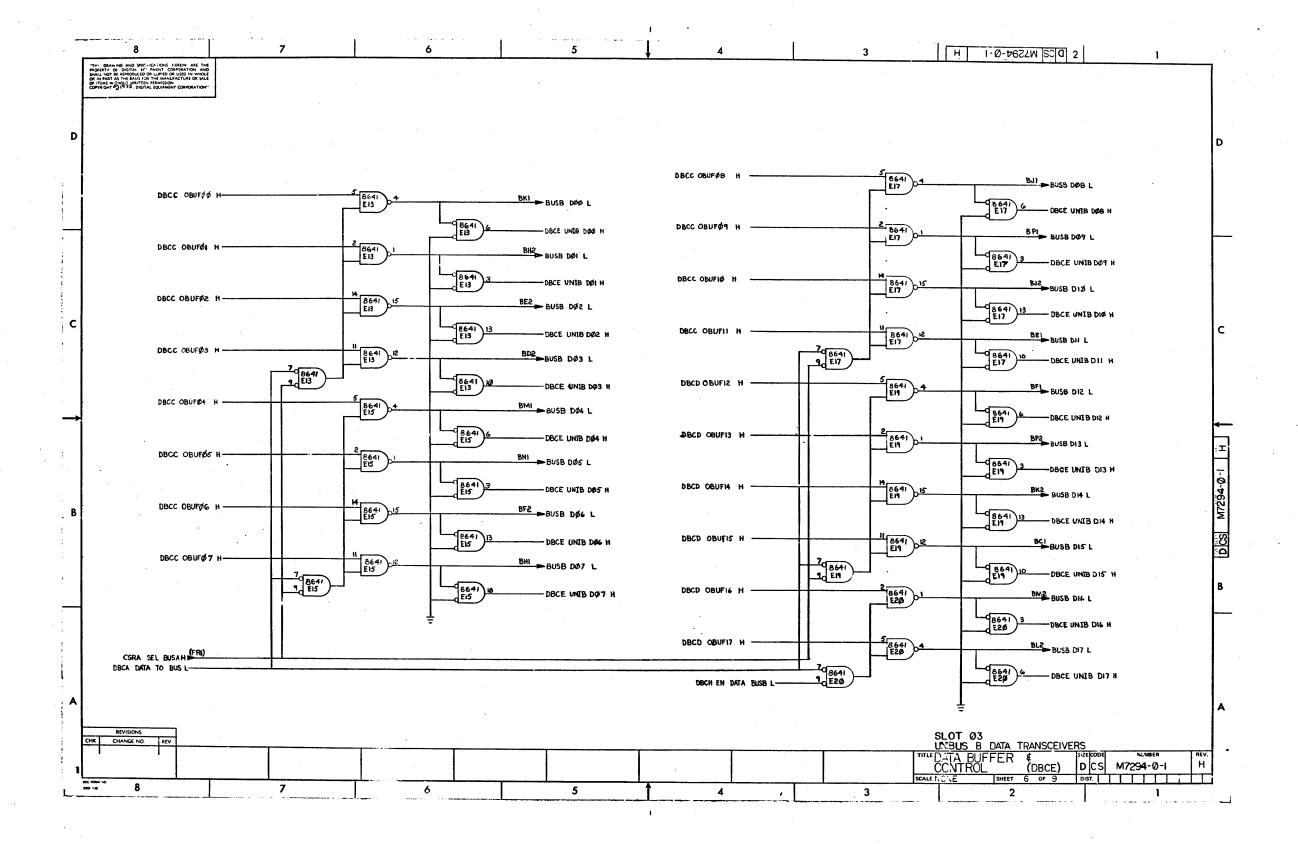


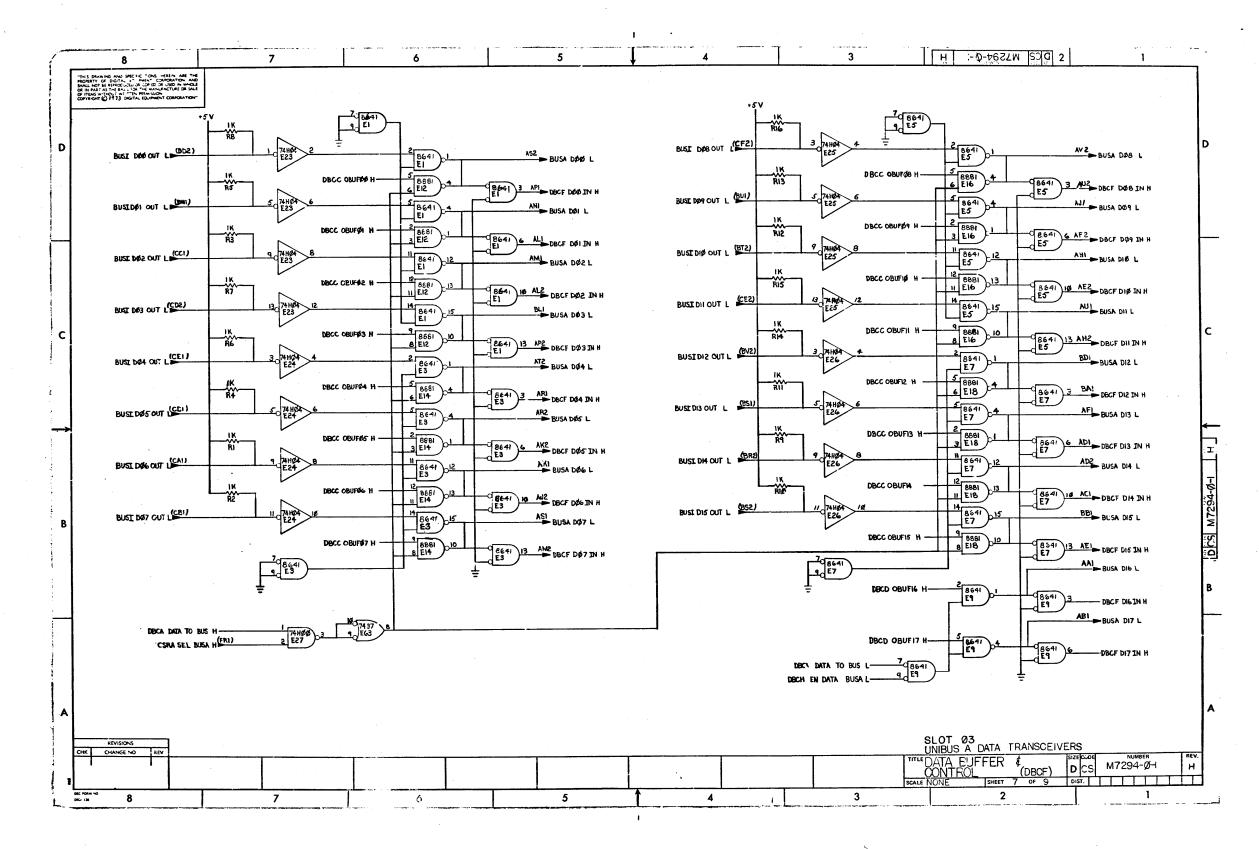




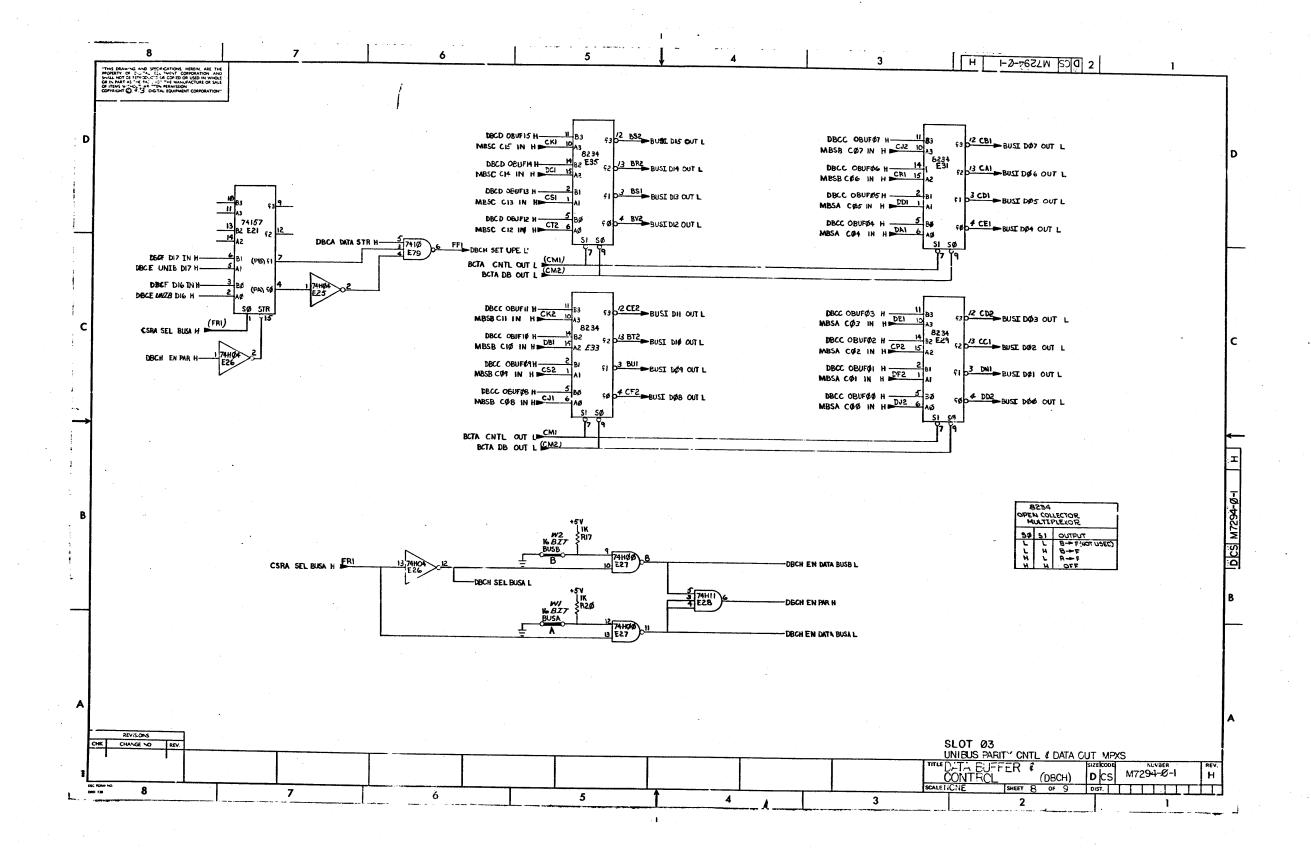


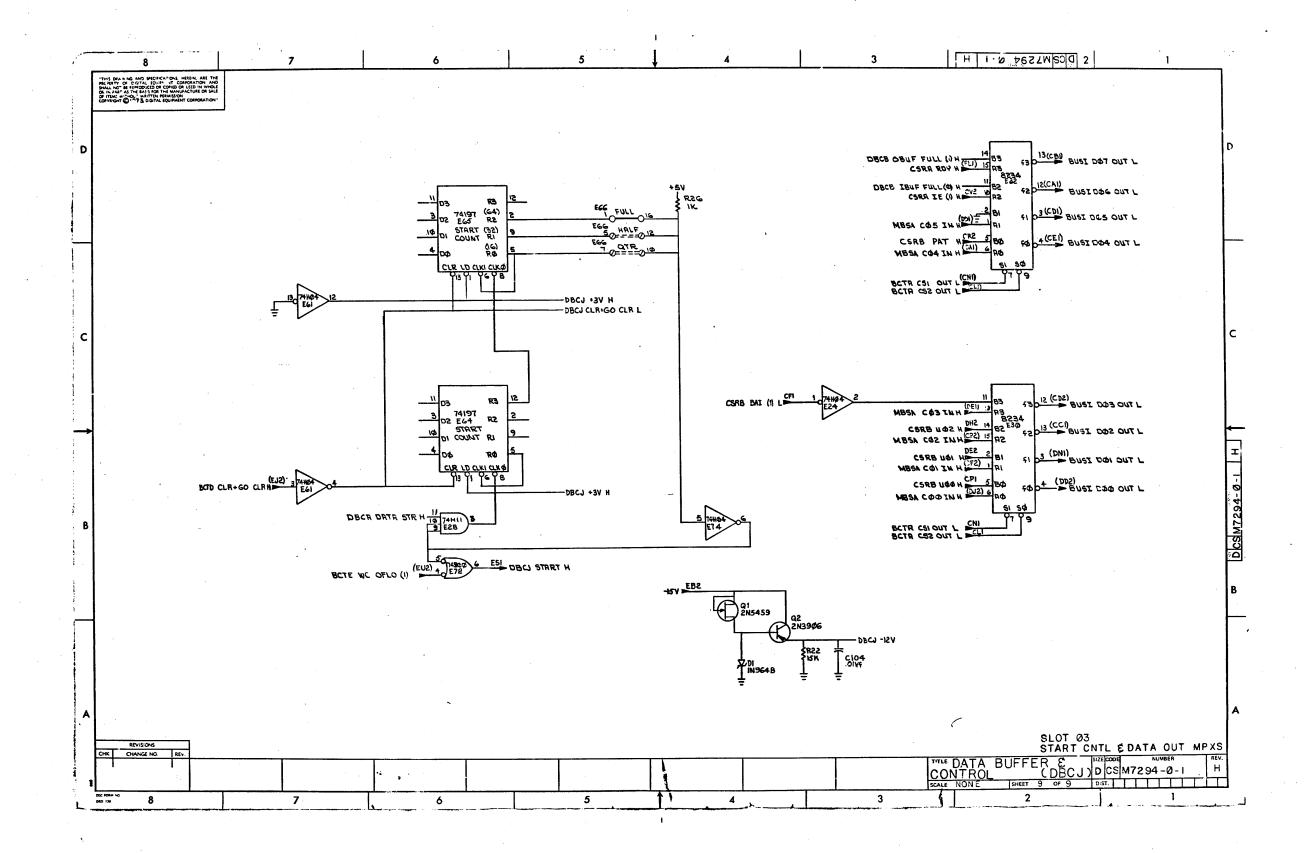


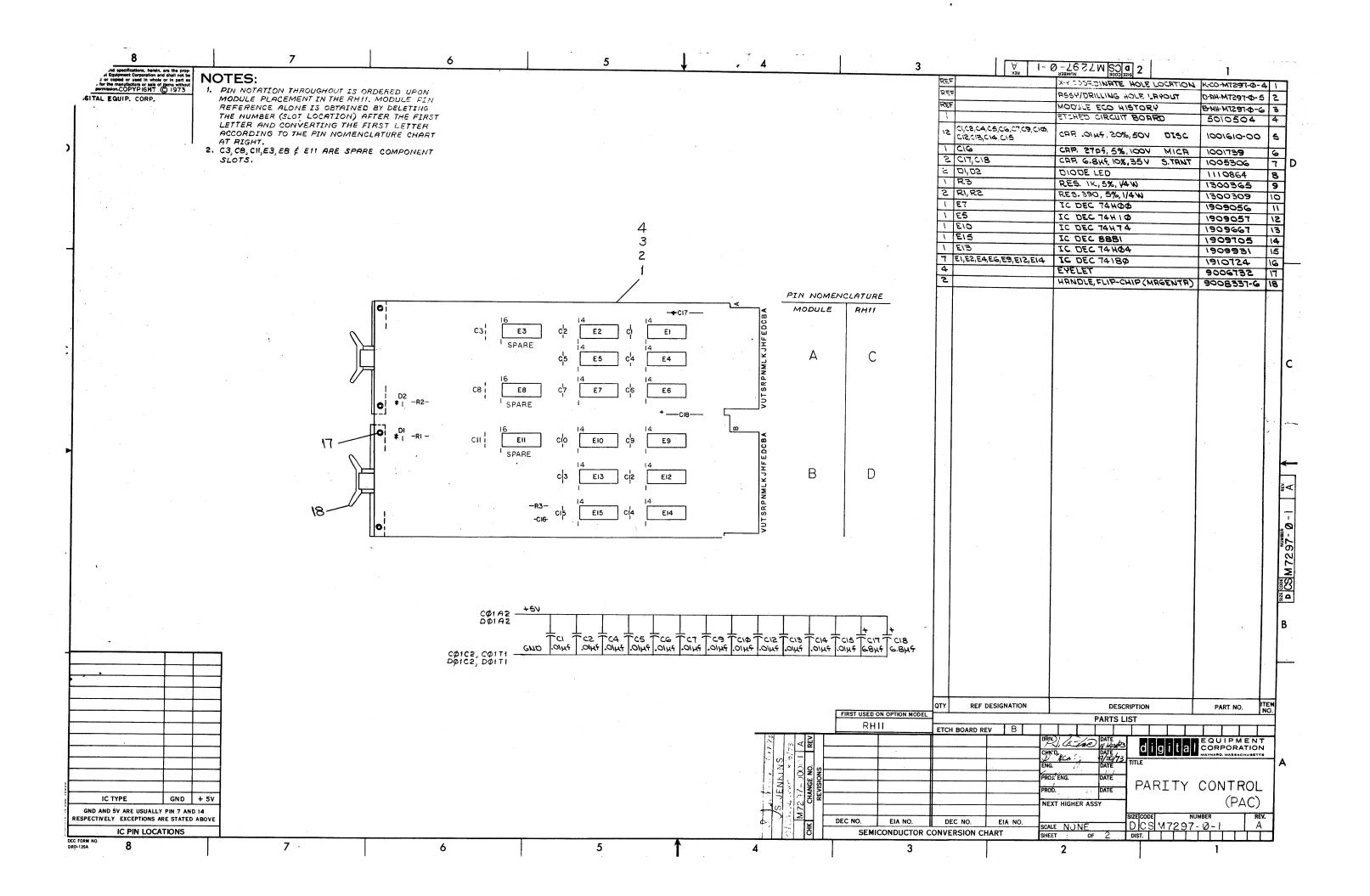


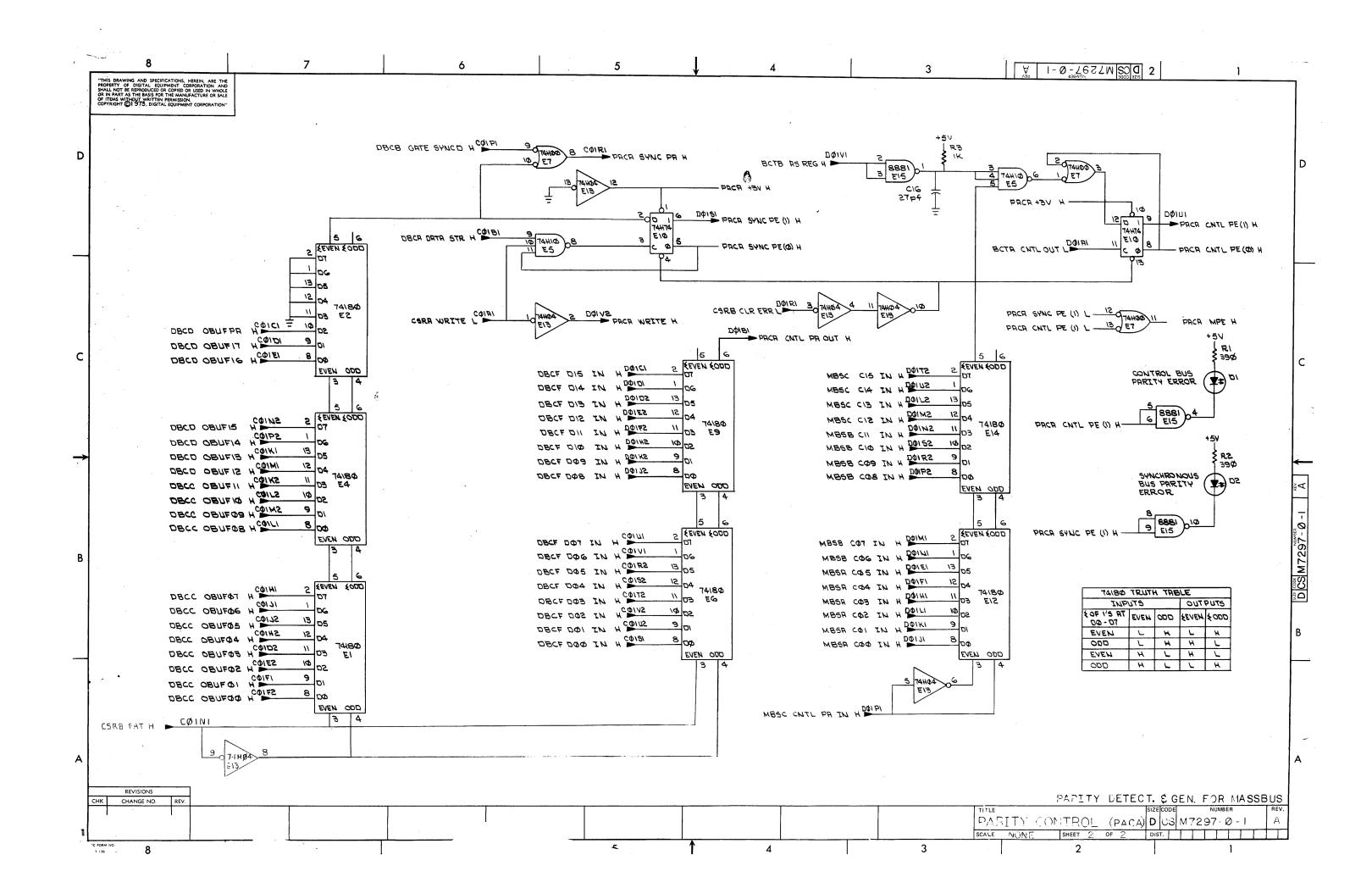


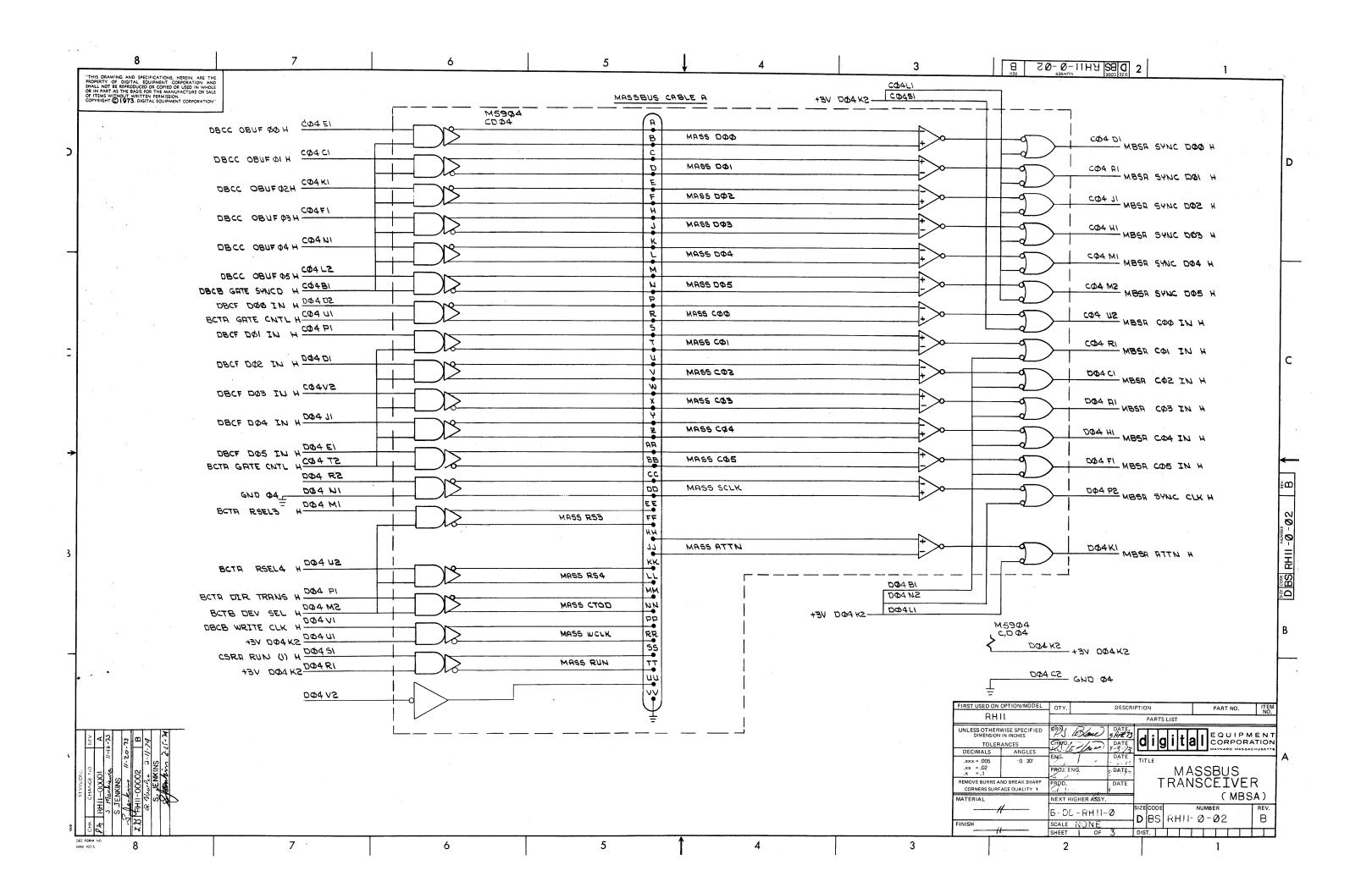
•

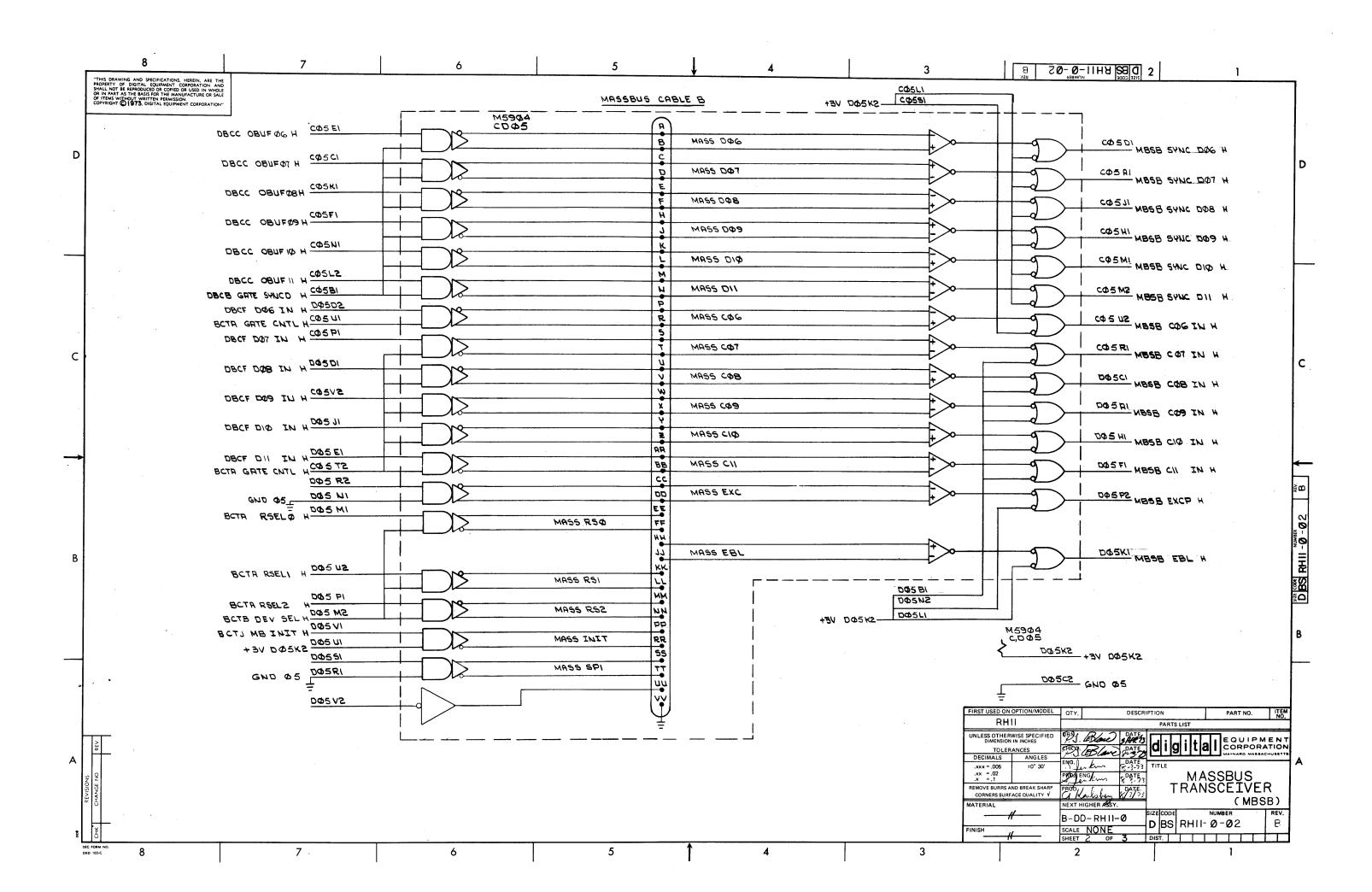


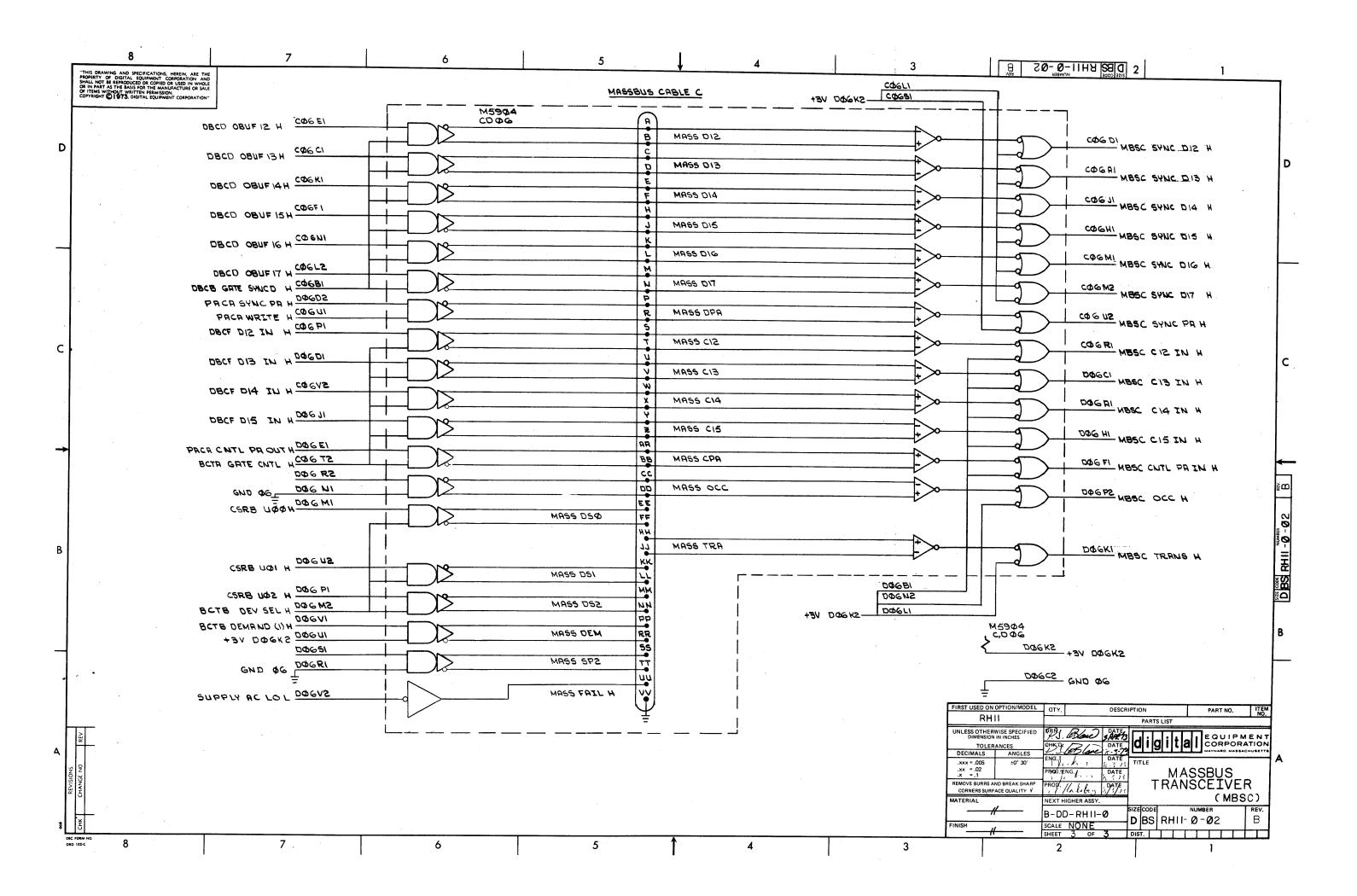


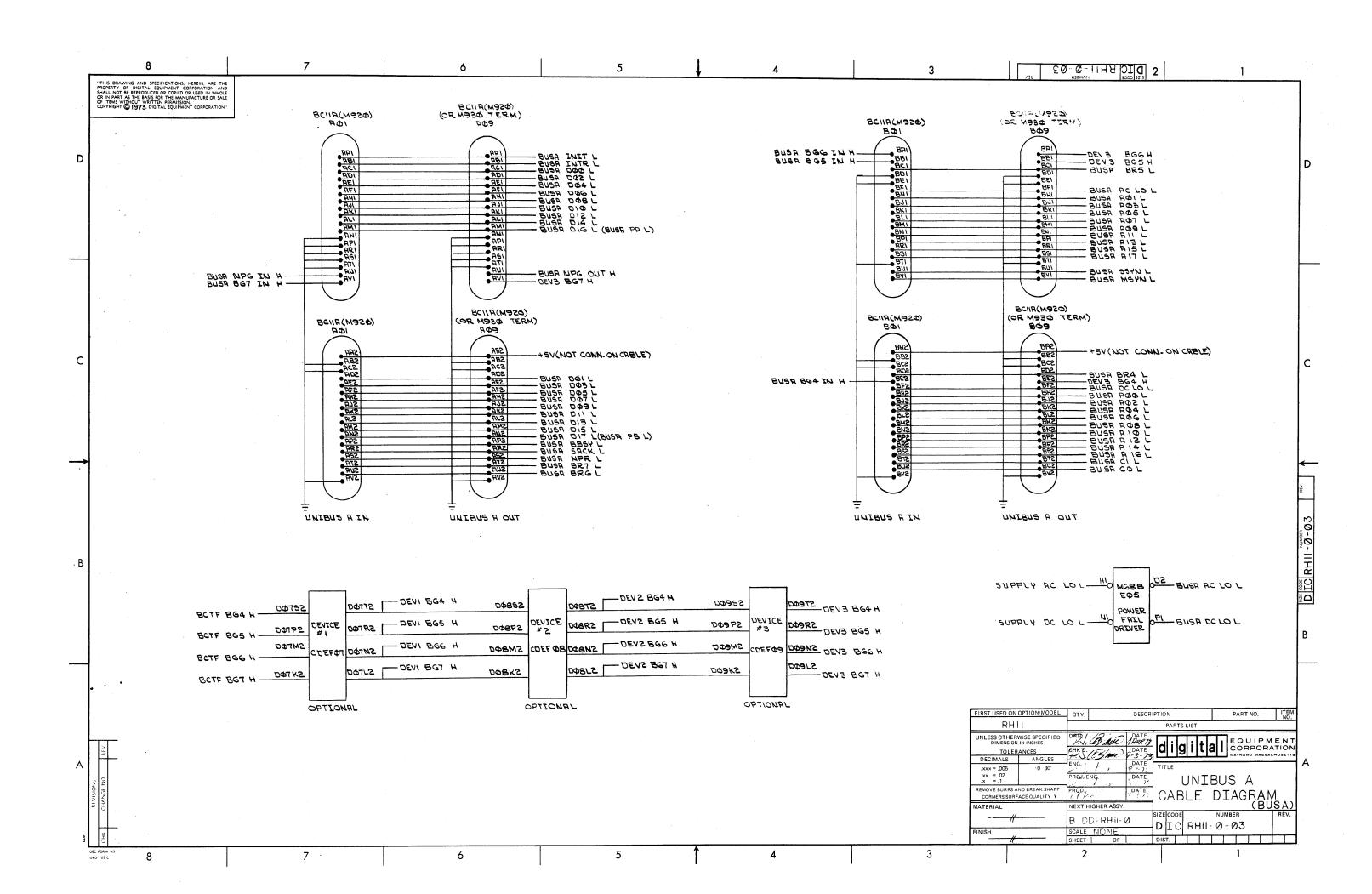


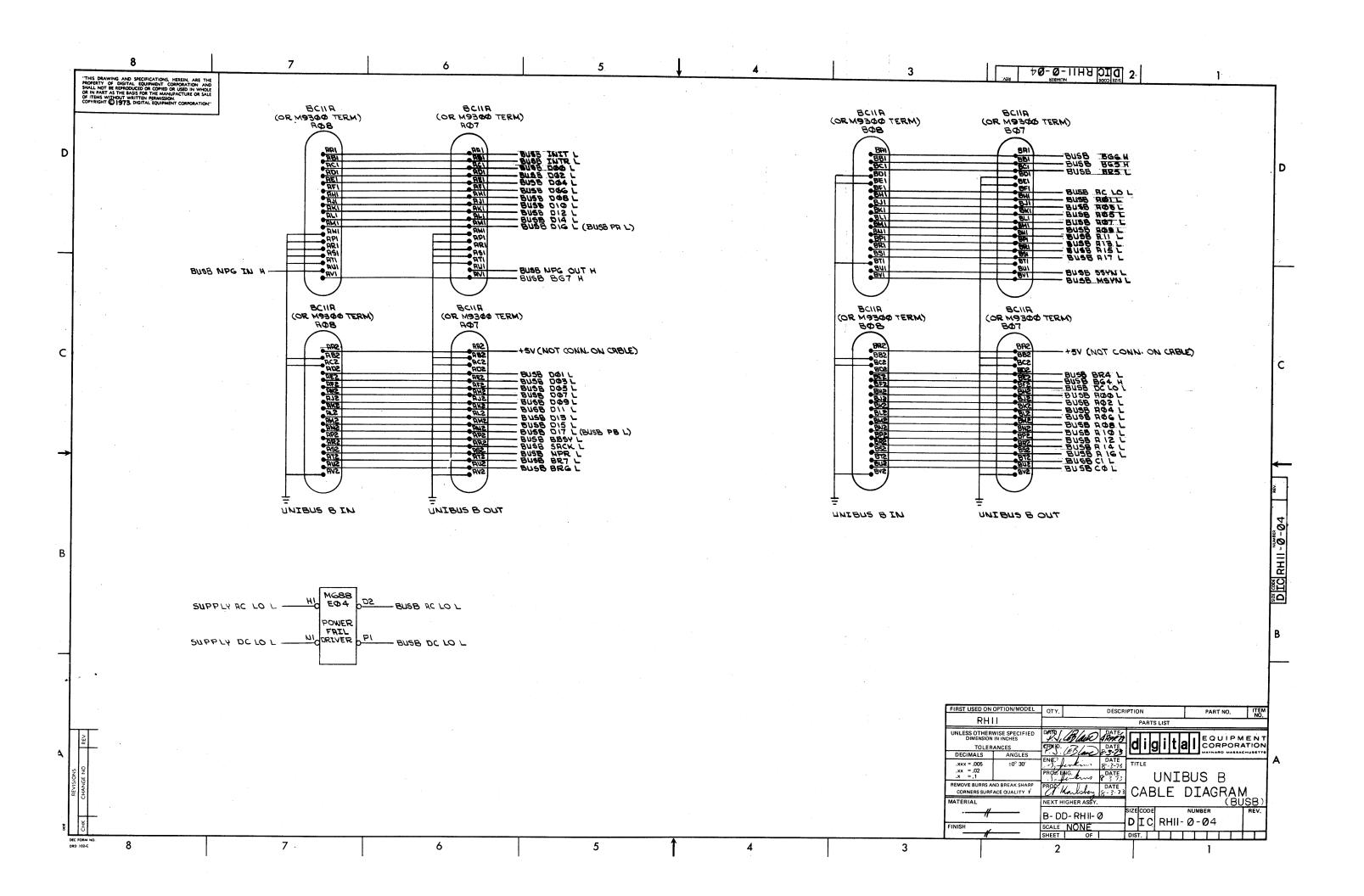


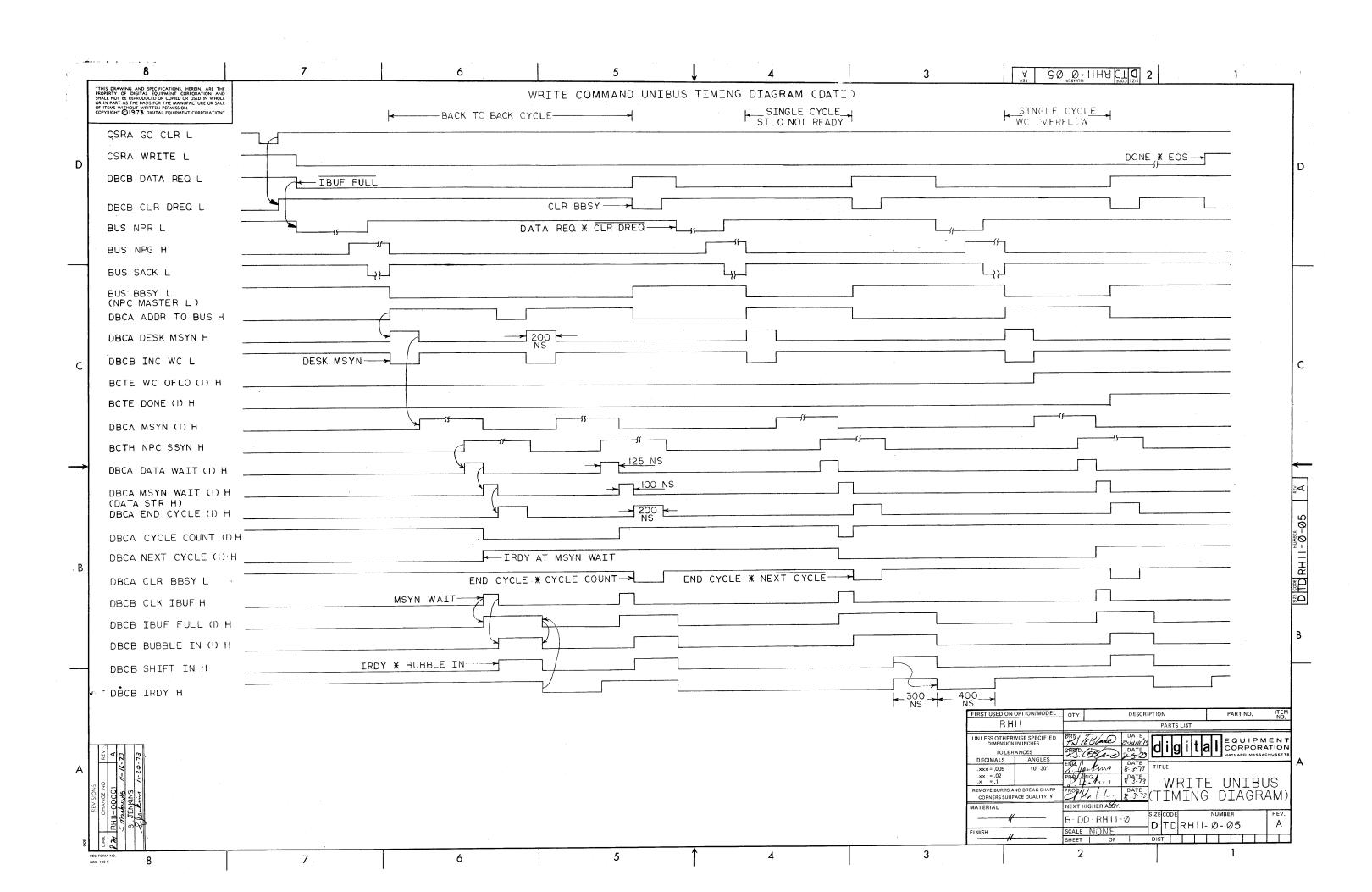


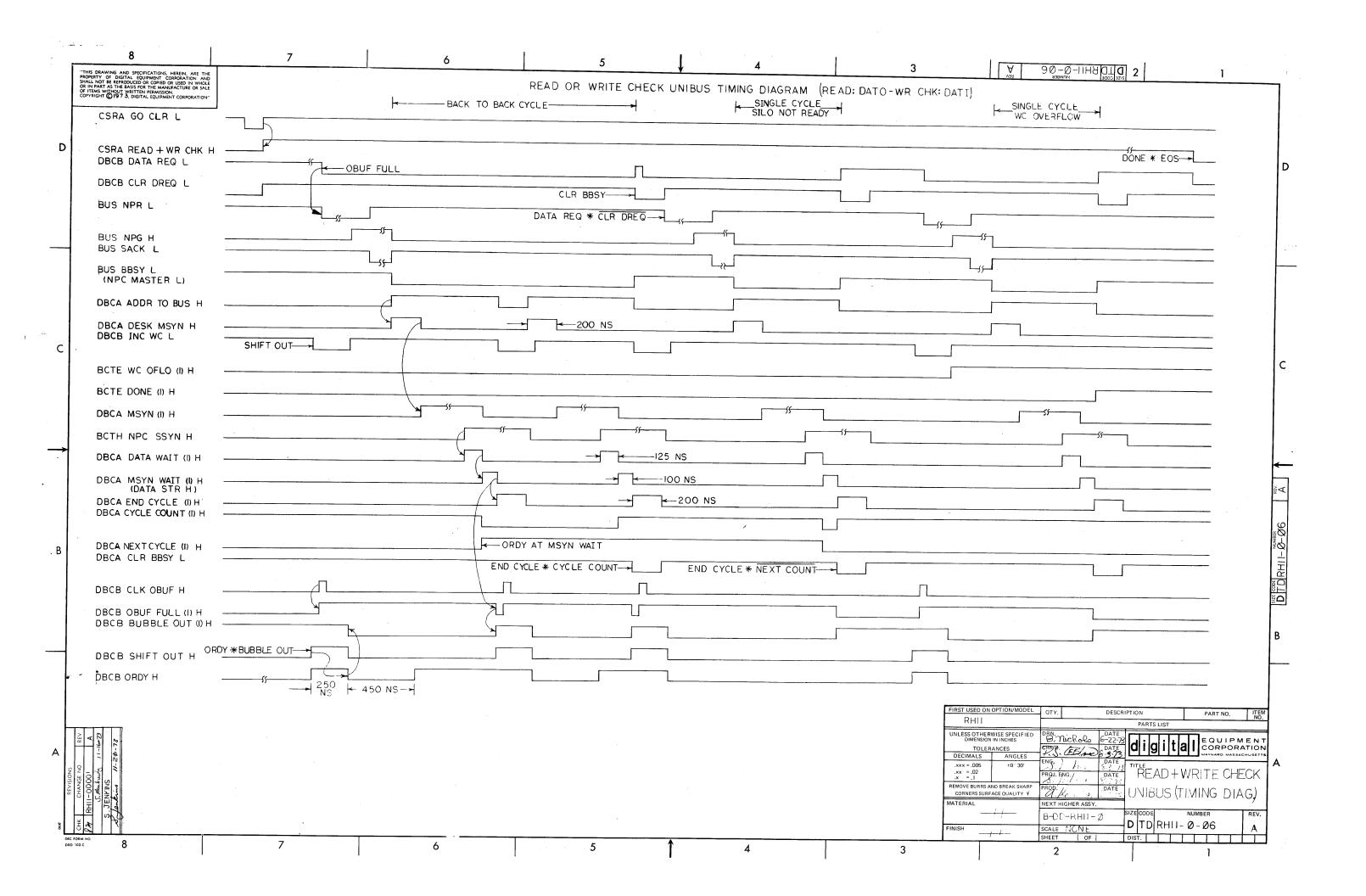


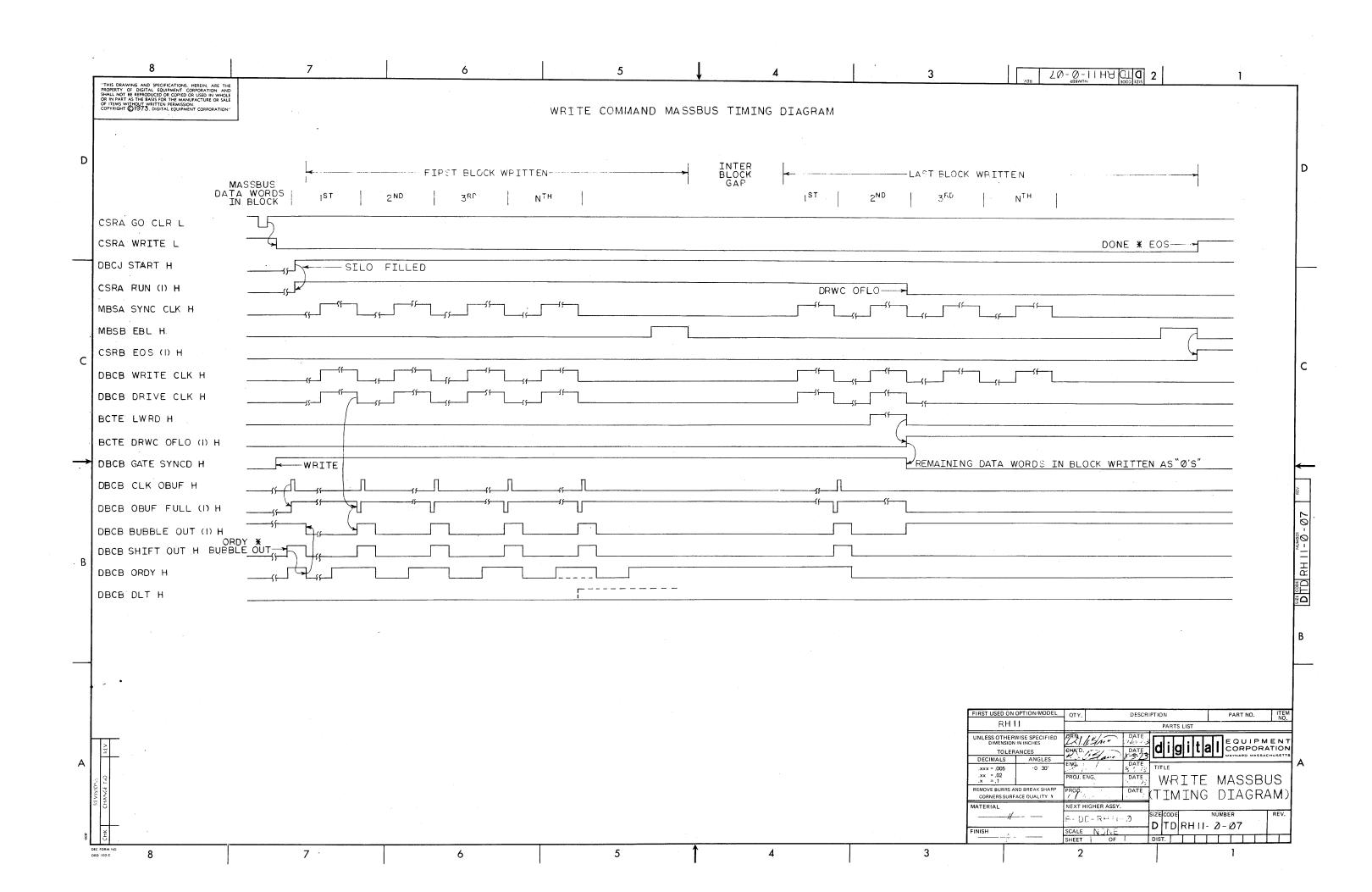


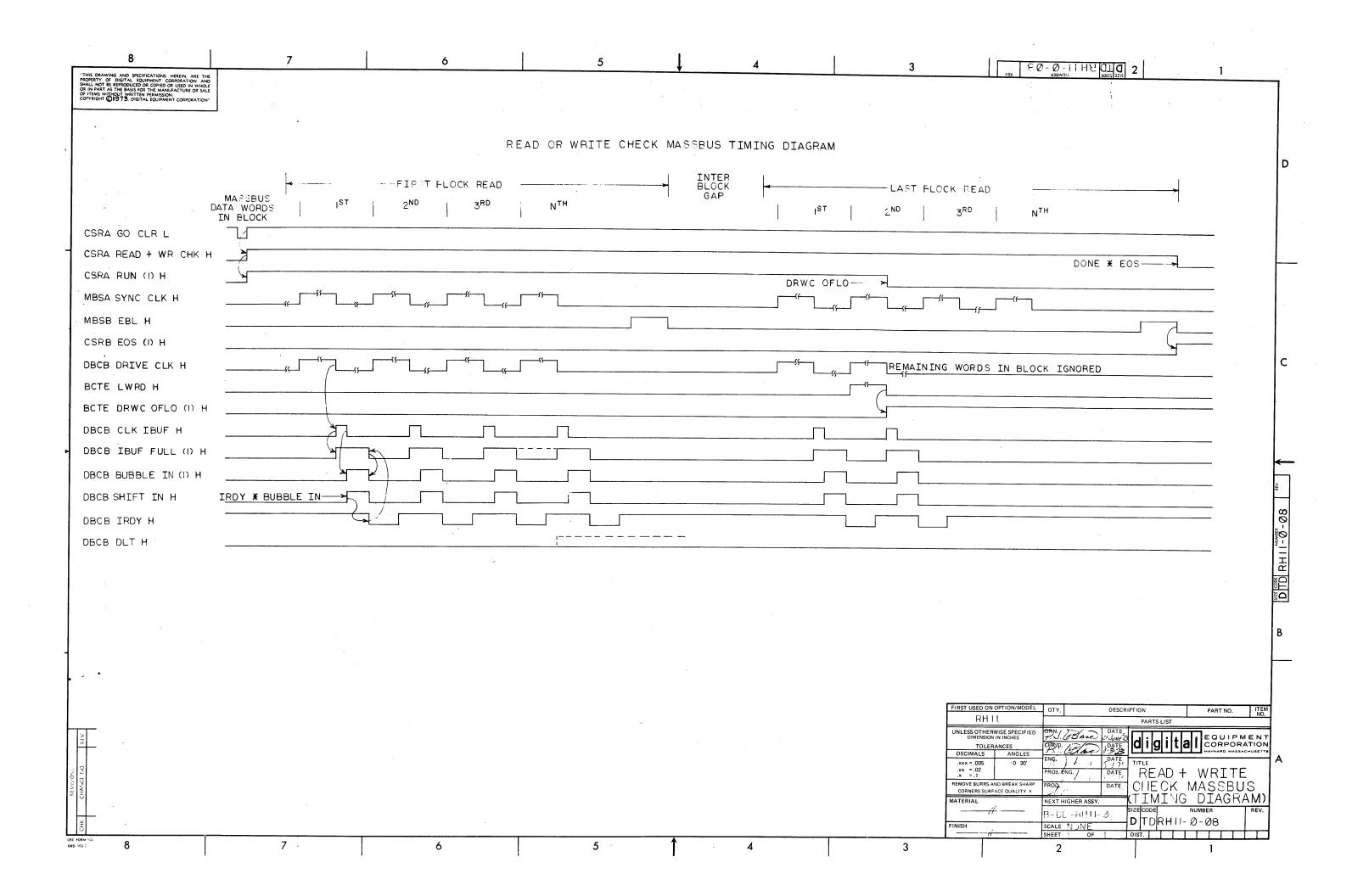


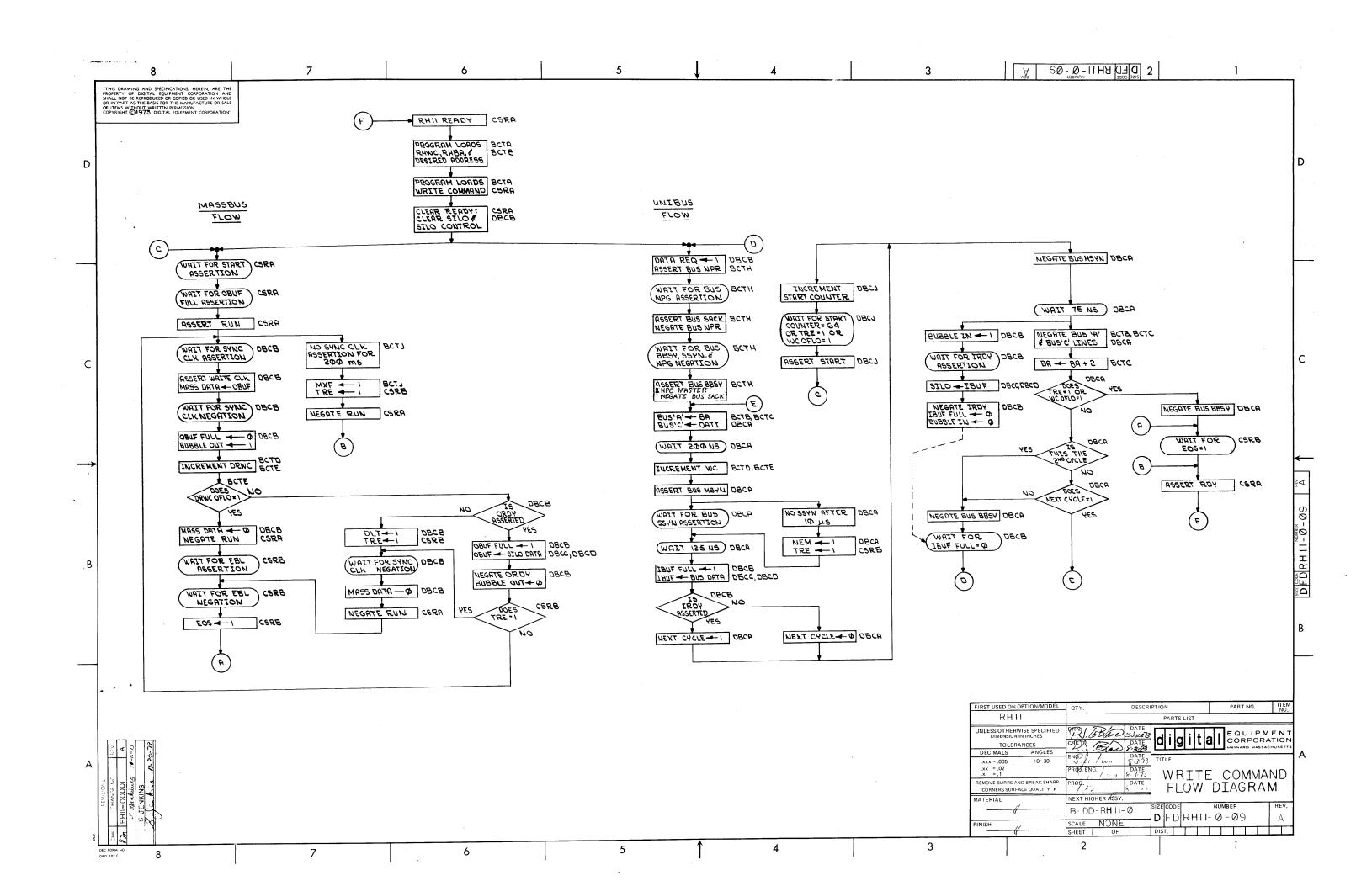


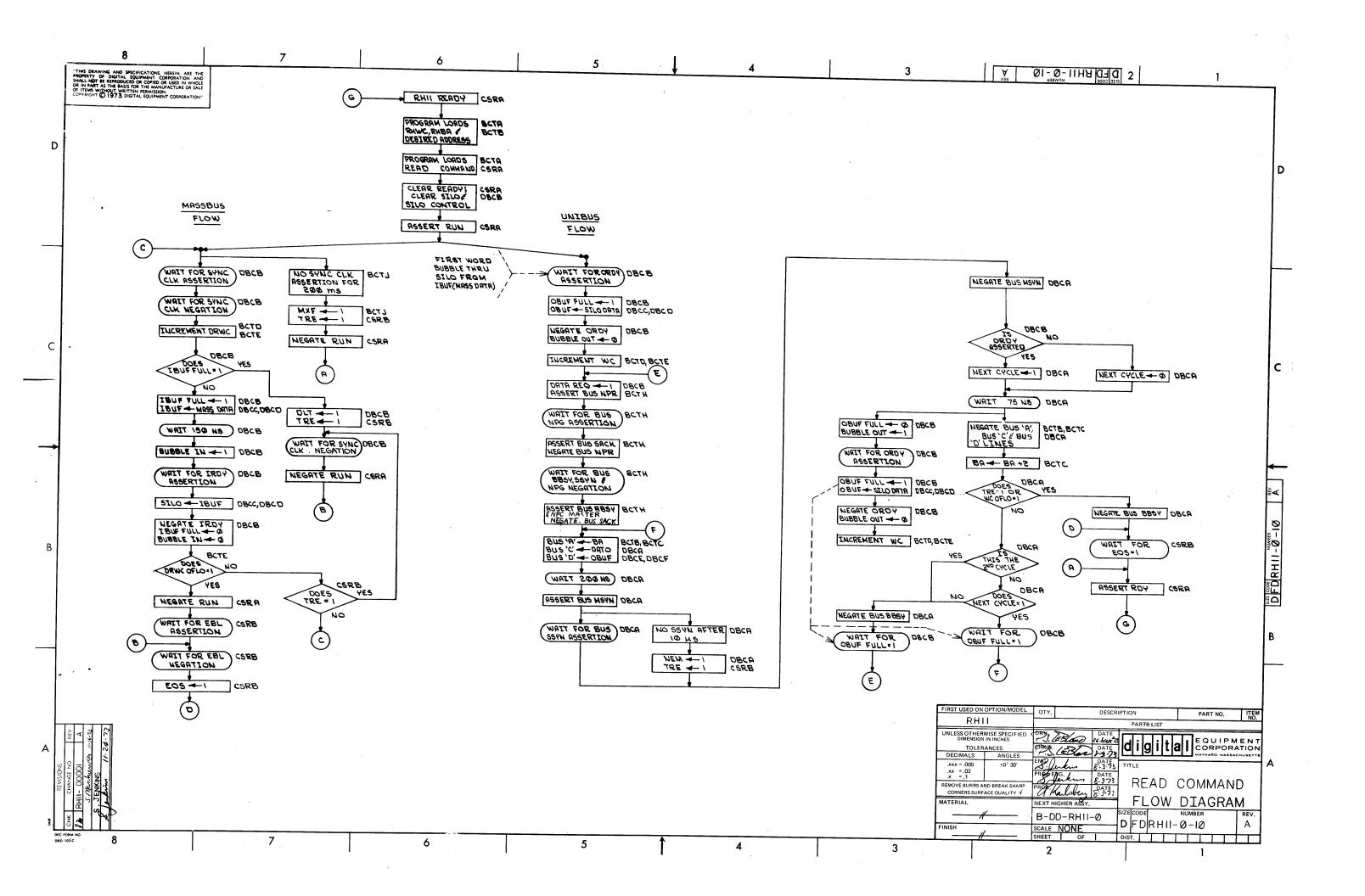


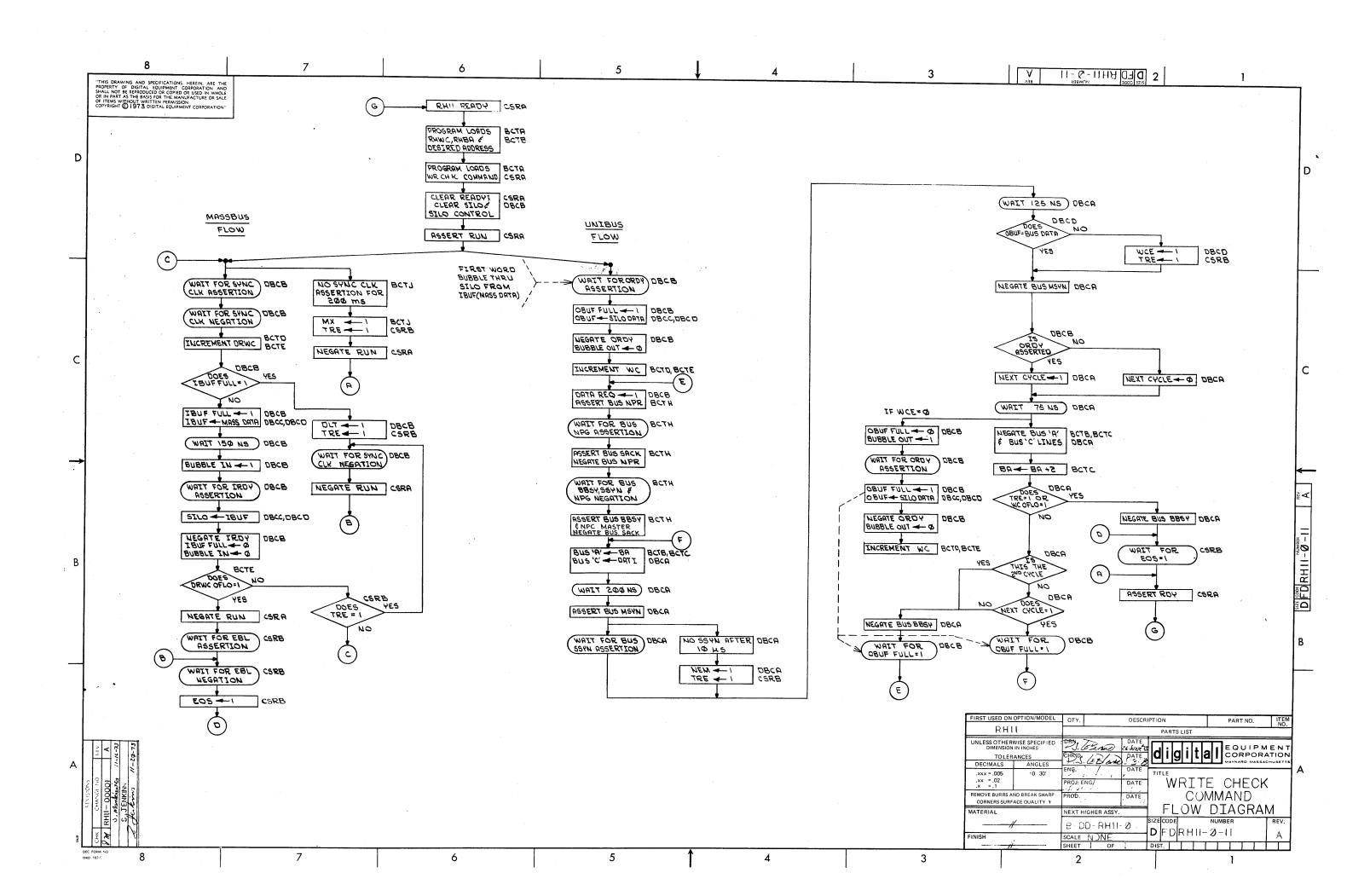


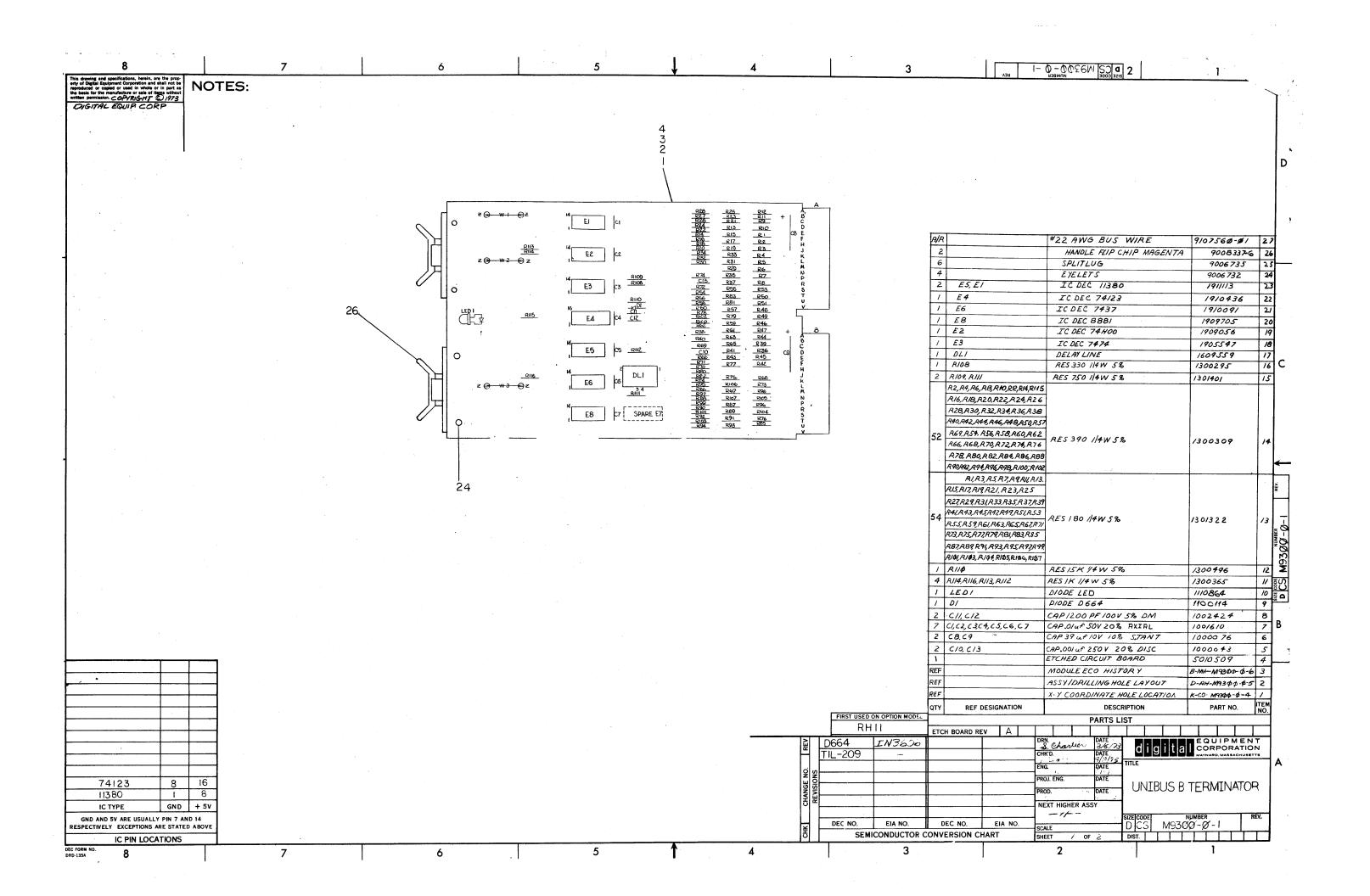


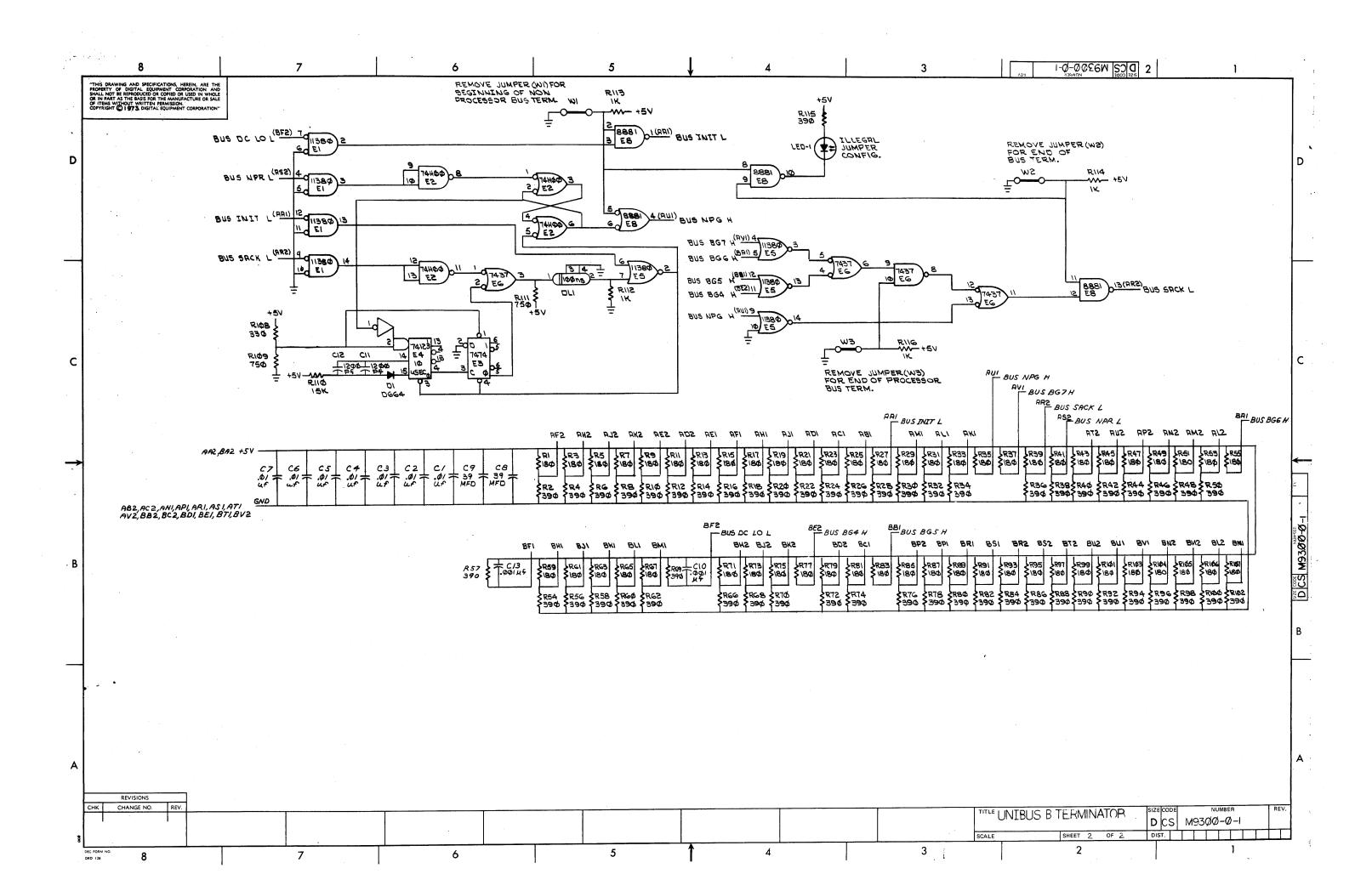


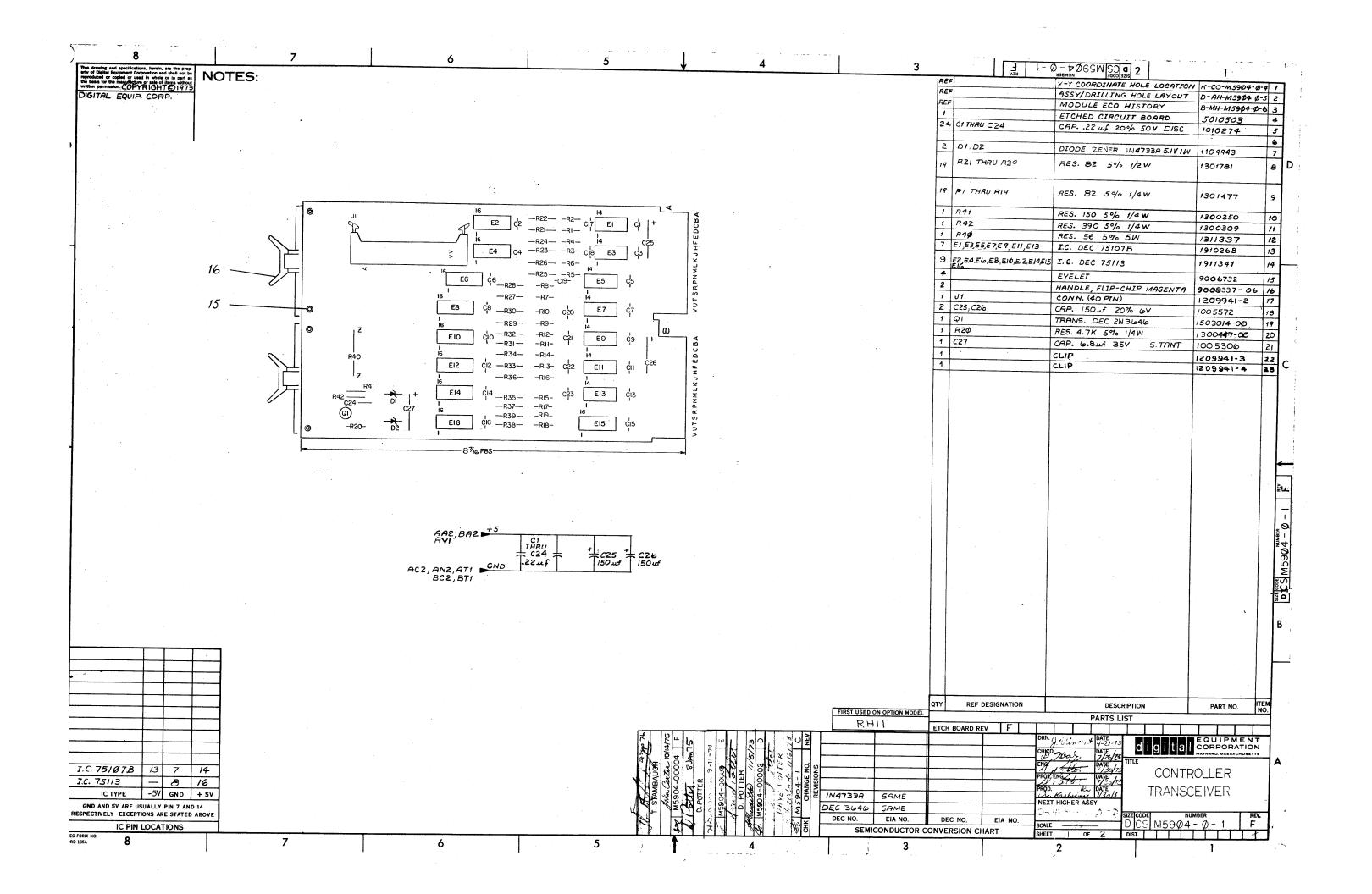


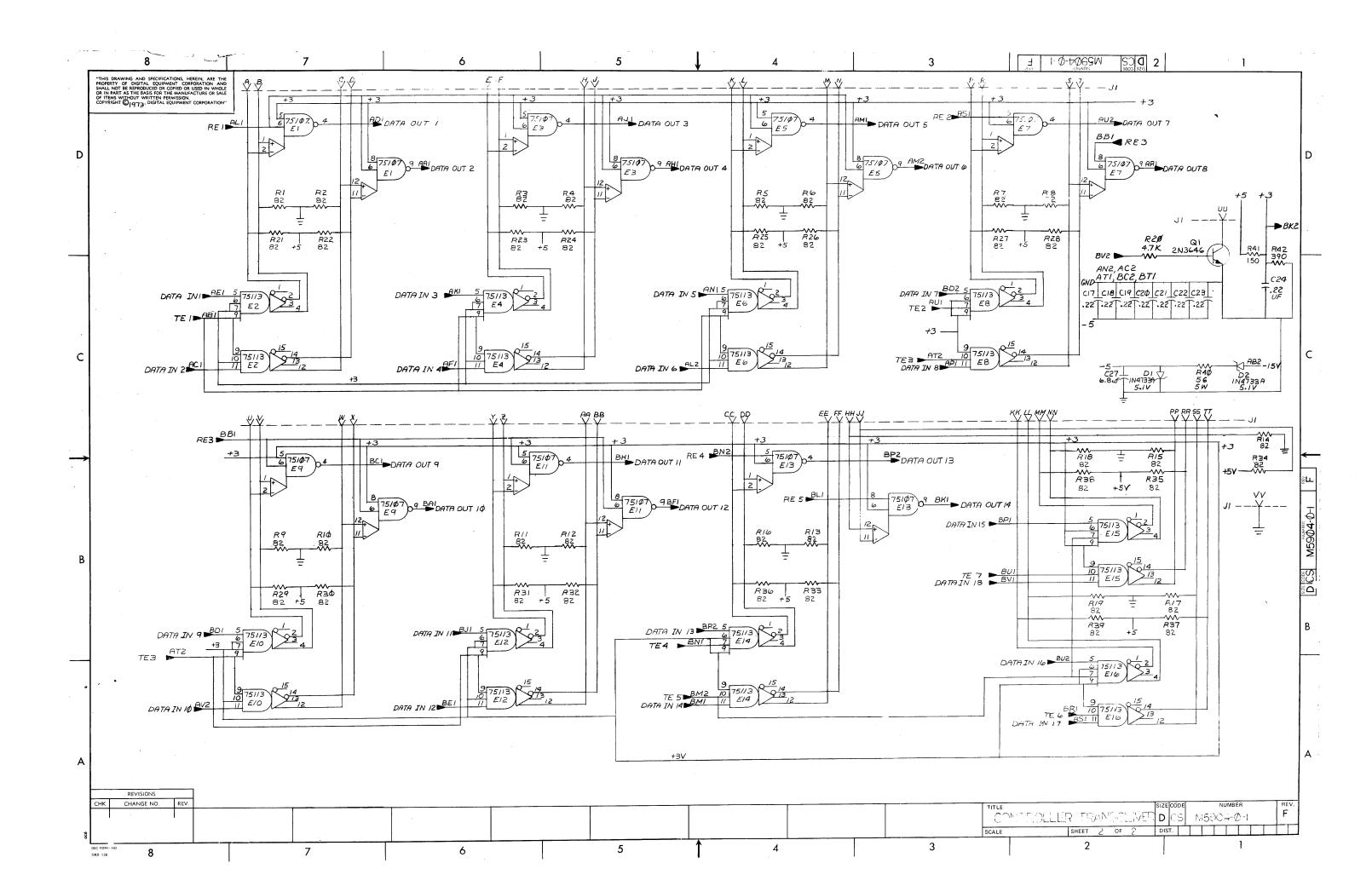












G727-0 B C2 THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1969 BY DIGITAL EQUIPMENT CORPORATION.

0 L М Ν Ρ R

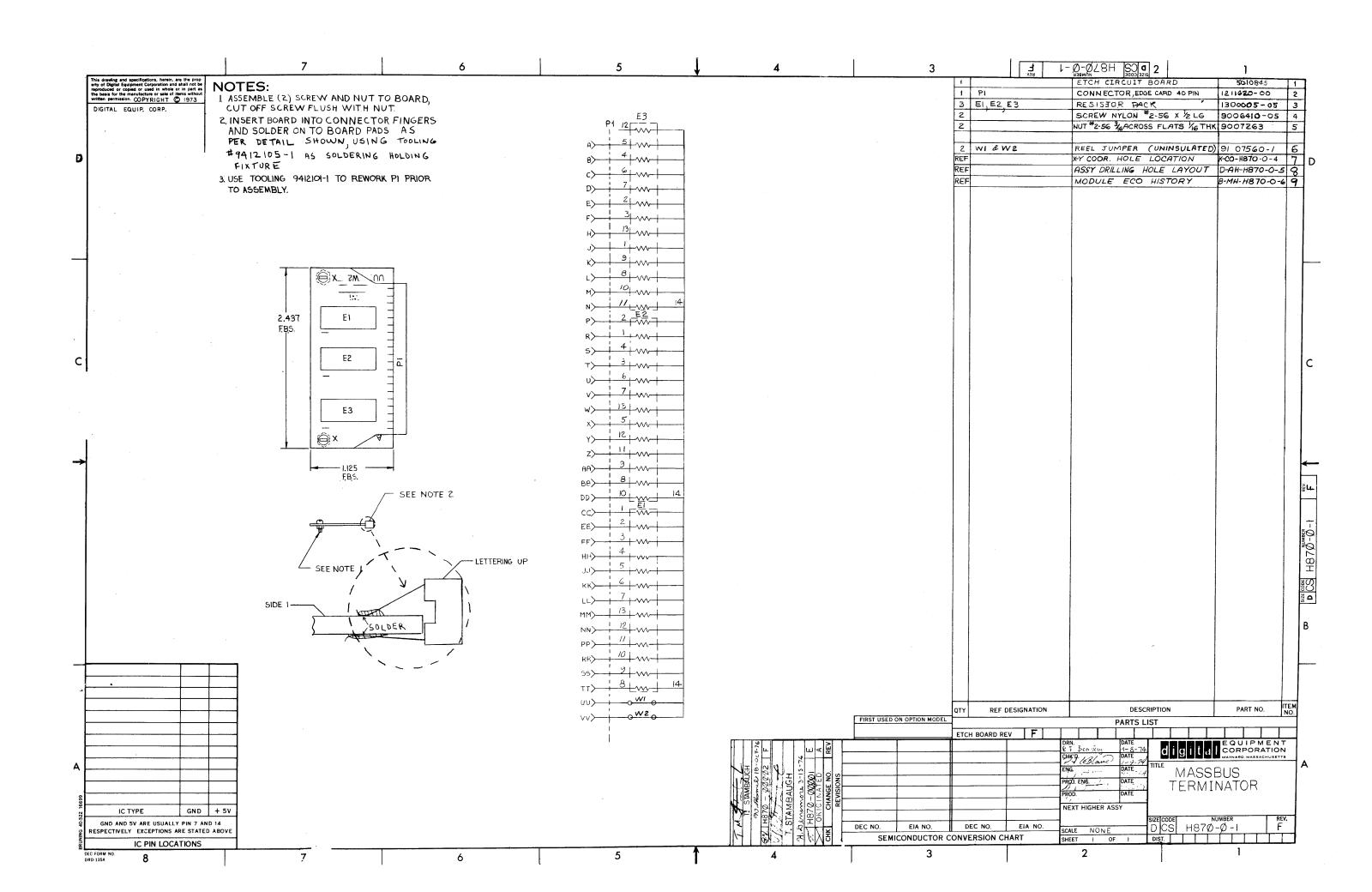
DATE //-/9-69 BUTLER CHK'D DATE DATE PROD. DATE

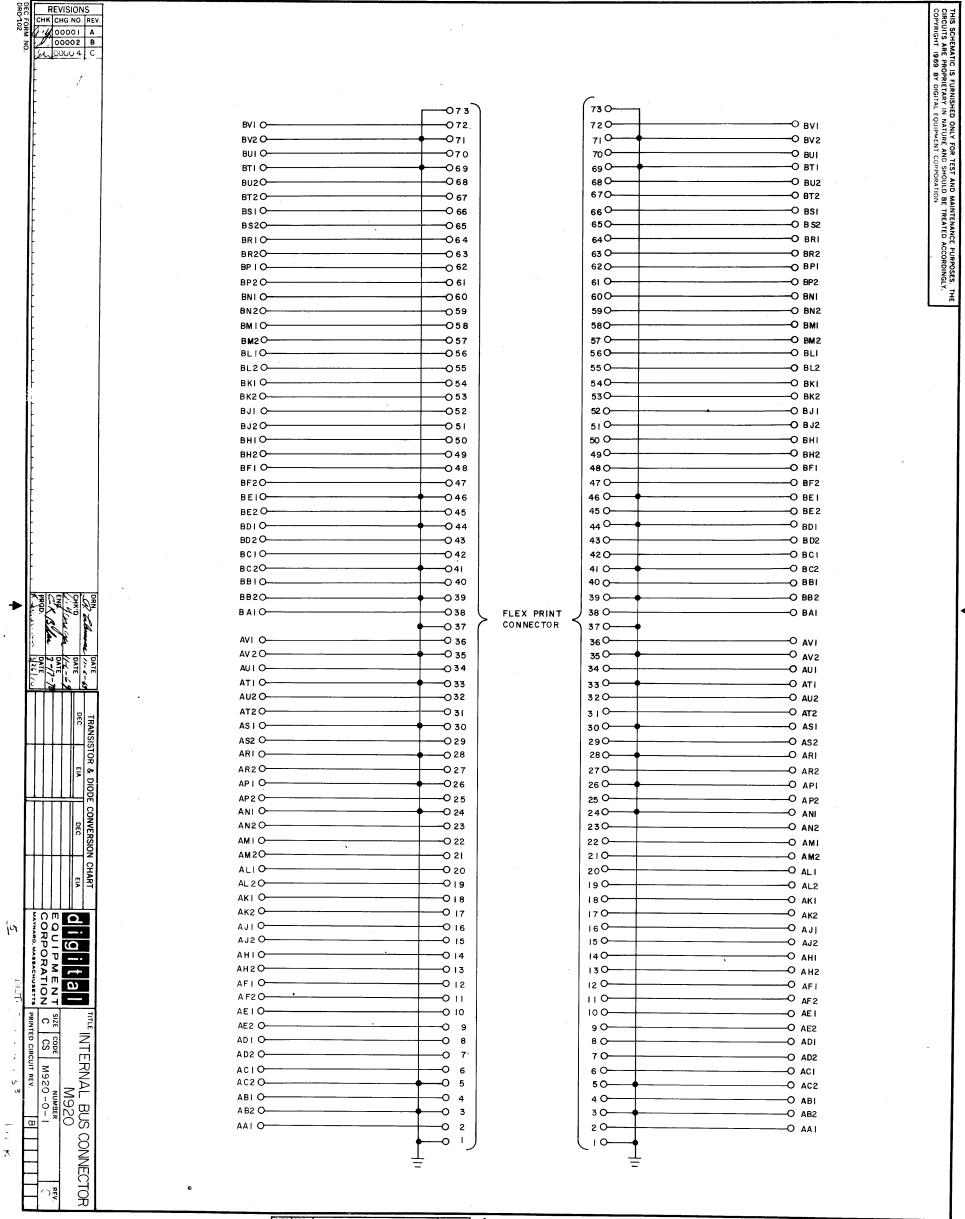
TRANSISTOR & DIODE CONVERSION CHART DEC EIA DEC EIA CORPORATION

EQUIPMENT SIZE CODE

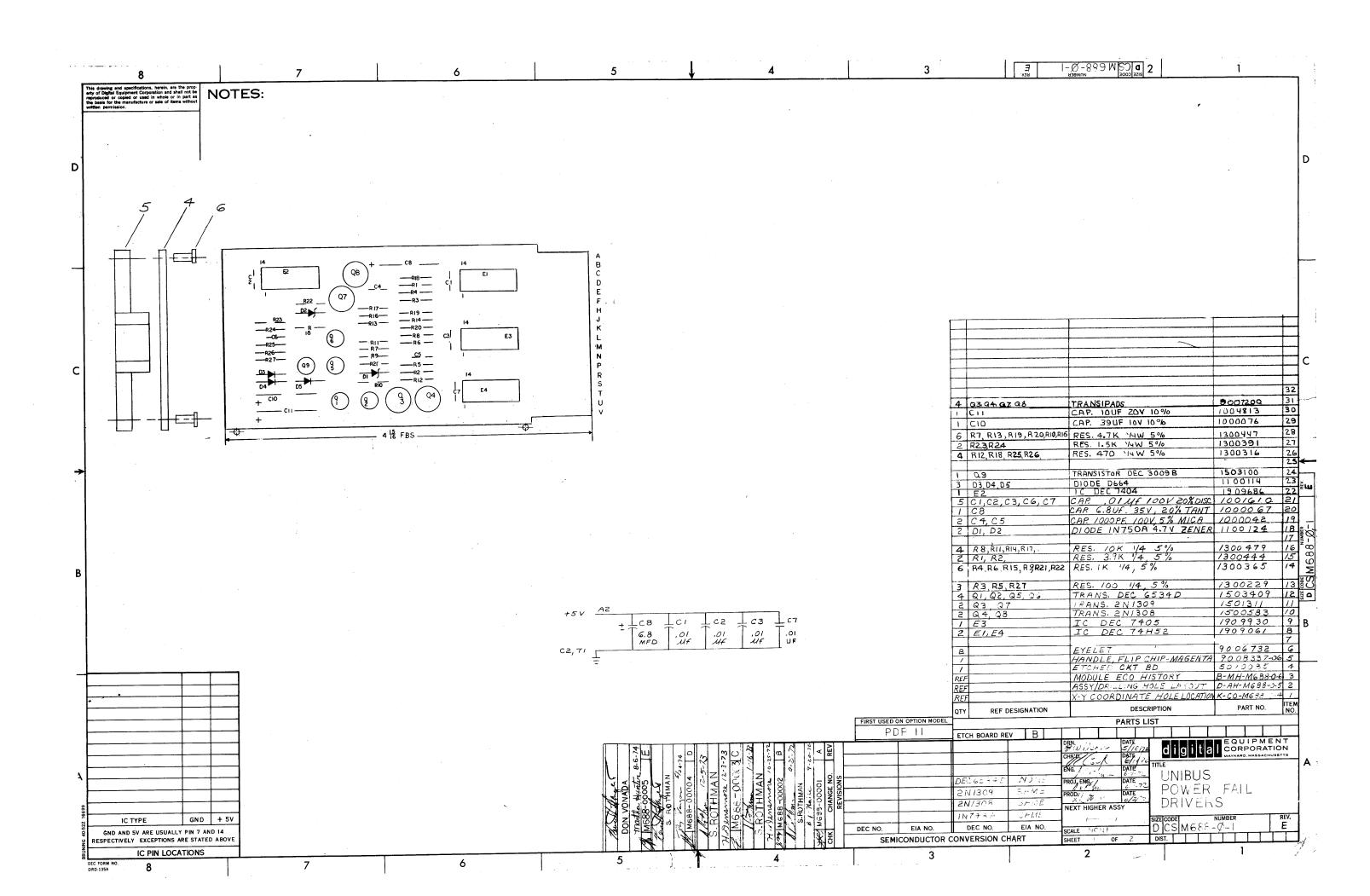
GRANT CONTINUITY G727

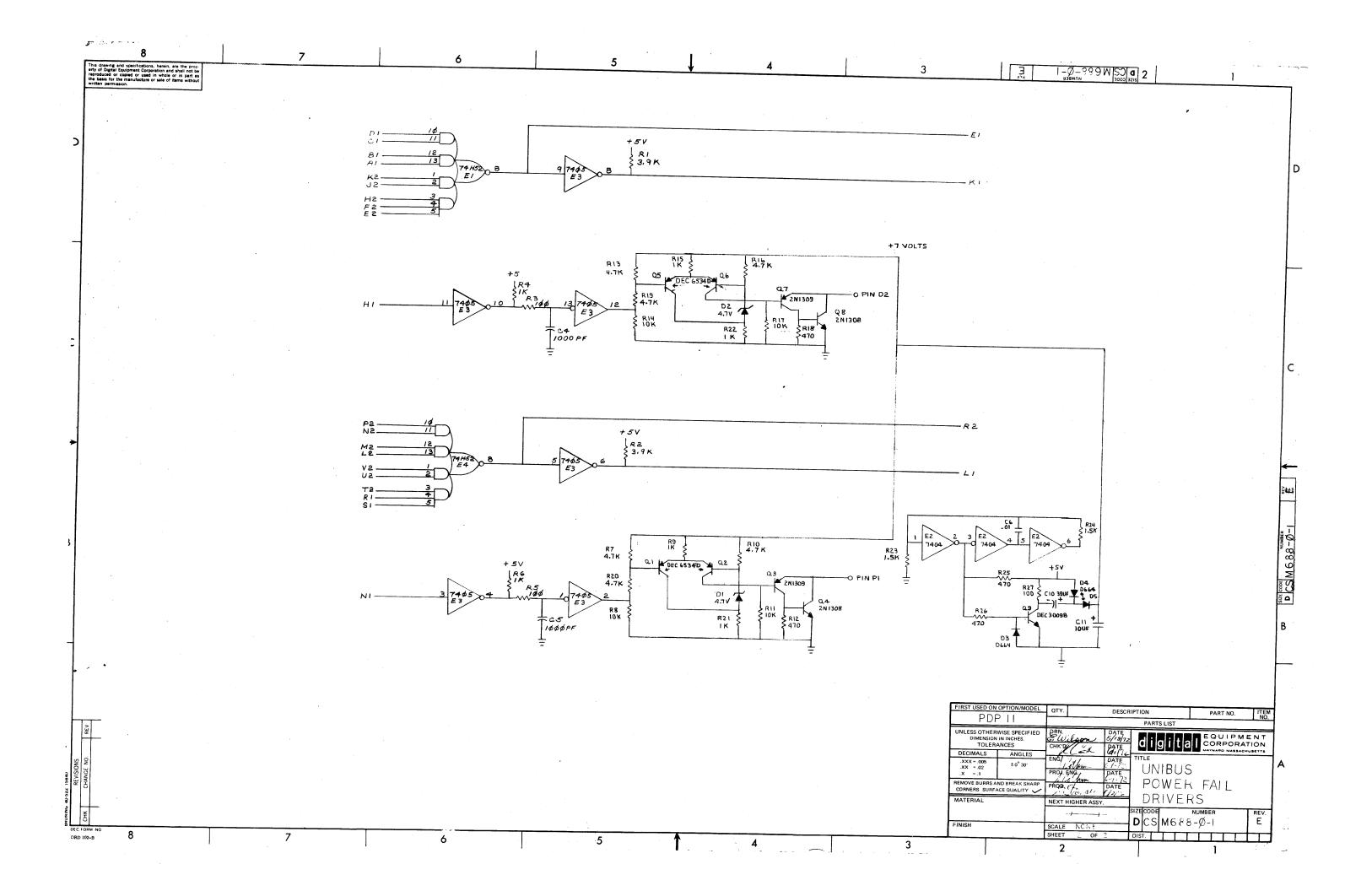
NUMBER REV. B CS G727-0-1 MAYNARD, MASSACHUSETTS PRINTED CIRCUIT REV.

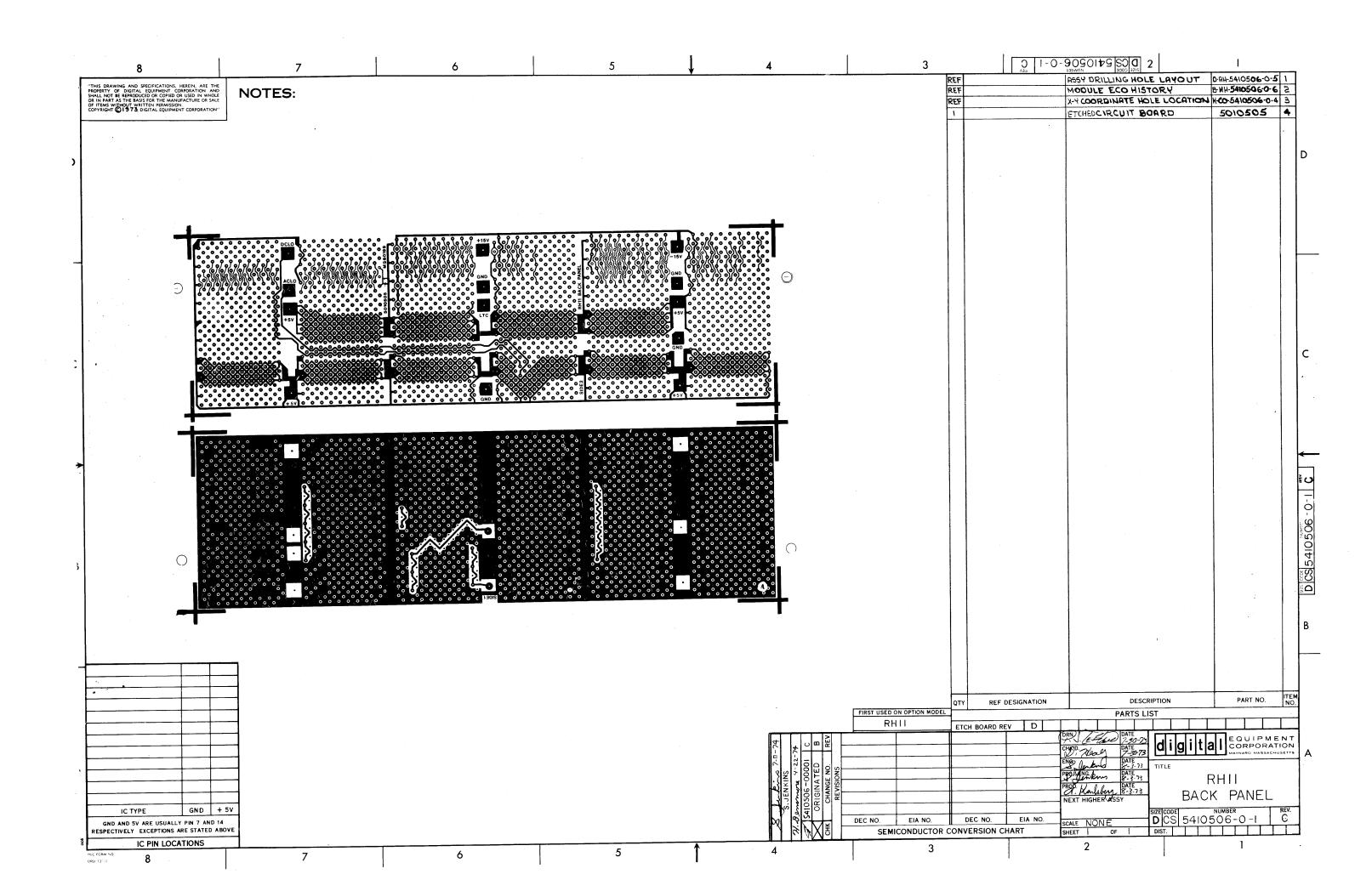


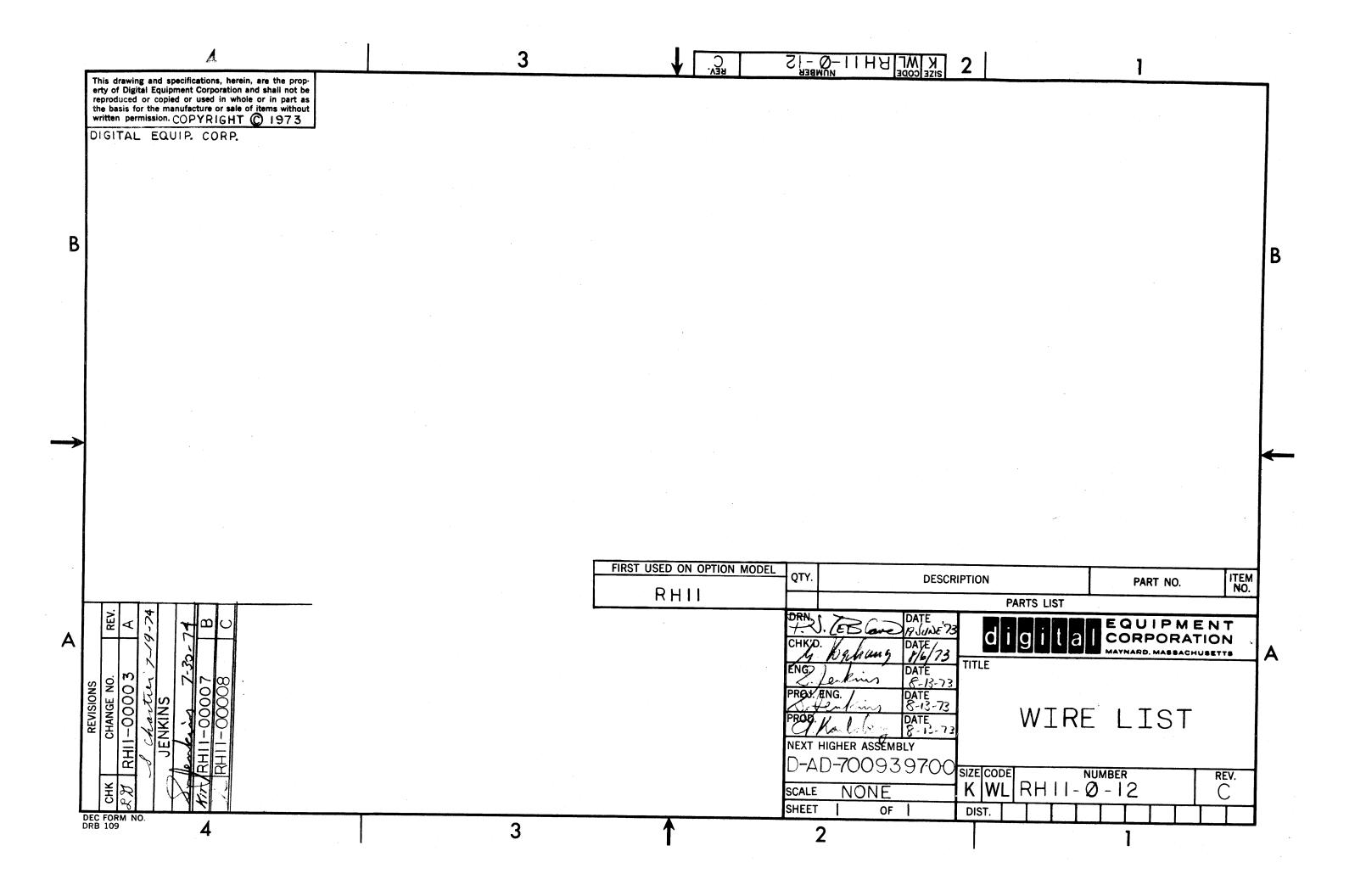


| SIZE | CODE | NUMBER | REV | C | CS | M 9 20 - 0 - 1 | C |









This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission. AUTOMATIC WIRE TESTER (AWT) REVISION STATUS INIT REL **DRAWING** NUMBER T2 В С D Ε K-WL-RHII- Ø В Α F В D Ε D-AD-7009397-0-0 C D-CS-5410506-0-1 С C С EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS CHK'D. L. Yilbert DATE 7-22-74 | RHII-00004 | RHII-00006 | RHII-00007 | RHII-00008 DATE 7-30-74 CHANGE NO.

RHI I-00003

OR IG INATED RHII PRODUENG DATE 74
PRODUENG DATE 7.33.74
FIRST USED ON MASSBUS CONTROLLER AWT REVISION STATUS SIZE CODE E A WT 7009397-0 SCALE -// DIST. SHEET / OF |

DRA 123

DEC 16-(325)-1097-N174

